

## Course Descriptions

### Definition of Prefixes

DIE-Dietetics; FOS-Food Science; FES-Fire and Emergency Services; FSS-Food Service Systems; GEY-Gerontology; HSC-Health Sciences; HUN-Human Nutrition; HSA- Health Services Administration; IHS-Interdisciplinary Health Sciences; PHC-Public Health; SOW-Social Work

**DIE 5247 Trends in Therapeutic Nutrition (3).** Evaluation and interpretation of current research in dietary care of metabolic diseases. Prerequisites: Diet therapy or approval of the instructor.

**DIE 5936 Advanced Practice Seminar (1-3).** Designed to provide didactic components in tandem with practice learning experiences in health care institutions. Covers material in clinical dietetics, management, and community nutrition. Utilizes a team approach and will draw on specialists from all areas of dietetics. Corequisites: DIE 6946, DIE 5947, DIE 5948 or permission of the instructor. (S)

**DIE 5948 Advanced Practicum in Clinical Nutrition (1-6).** Application of the principles, concepts, theories, and methodologies of administration and management to dietetic systems in healthcare and foodservice. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

**DIE 6128 Dietetic Administration and Management (3).** Application of management and organizational theory to dietetic systems in health and community institutions.

**DIE 6259 Management of Nutrition Services (3).** Analysis of interdisciplinary nutrition services delivery with emphasis on management models and theories regarding division of work, quality improvement and productivity, leadership, motivation and planning, organizing, staffing, directing, and controlling.

**DIE 6285 Pregnancy and Lactation (3).** This course is designed to apply the principles of practical and comprehensive nutrition information on counseling and support needs during and between Pregnancy and Lactation. Prerequisites: HUN 6415 and HUN 6416.

**DIE 6286 Pediatric Obesity (3).** This course is designed to apply the latest tools and practice recommendations needed to educate and counsel in the area of childhood obesity and prevention. Prerequisites: HUN 6415 and HUN 6416.

**DIE 6287 Dysfunctional Eating in Pediatrics (3).** This course is designed to apply the principles of psychology, physiology, and nutrition to nutrition care and counseling for infants, children and adolescents engaged in dysfunctional/abnormal eating. Prerequisites: HUN 6415 and HUN 6416.

**DIE 6368 Advanced Techniques in Dietetic Practice (3).** Techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4435L or equivalent. Corequisite: DIE 6368L. (S, even years)

**DIE 6368L Advanced Techniques Dietetic Practice Lab (1).** Individual practice in conducting interviews, planning

nutritional care, changing nutritional behavior, and providing dietetic consultation. Prerequisite: Permission of the instructor. Corequisite: DIE 6368. (S, even years)

**DIE 6567 Research II (3).** This course will further expand student knowledge and skills in research in Dietetics and Nutrition primarily through the development of a research proposal. Prerequisite: DIE 6568.

**DIE 6568 Research I (3).** Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: STA 6166 or permission of the instructor.

**DIE 6576 Project in Dietetics and Nutrition (1-6).** Development and completion of a research project on a specific, important topic, question or need in the area of dietetics and nutrition. Prerequisites: DIE 6568; 12 hours graduate study, and permission of project advisor.

**DIE 6578 Qualitative Research Methods in Dietetics (3).** Application of qualitative research methods including field and case study approaches in interpreting and designing research studies. Introduction to interdisciplinary research. Prerequisite: DIE 6568.

**DIE 6906 Readings in Dietetics and Nutrition (1-3).** Dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of the instructor and advanced standing in graduate program. (F,S,SS)

**DIE 6907 Individual Study in Dietetics (1-3).** Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Instructor. (F,S,SS)

**DIE 6915 Supervised Research (1-3).** Continuation of thesis research under thesis advisor. Repeatable. Prerequisite: Completion of all other required course work. (F,S,SS)

**DIE 6929 Specialized Short Courses in Dietetics and Nutrition (1-3).** Intense courses on specialized topics in dietetics and nutrition for the advanced student or professional. Topic based on current nutrition concerns. Prerequisites: Advance graduate standing and permission of the instructor.

**DIE 6935 Special Topics in Dietetics (3).** In-depth study of historical, epidemiological, prevention, and treatment aspects of topics related to dietetics. Prerequisites: Competence in topic covered, admission to graduate program.

**DIE 6937 Graduate Seminar in Dietetics and Nutrition (1).** Presentations by researchers and doctoral students on studies, theories, applications; journal club presentations by students. Two semesters enrollment, M.S. students; three semesters Ph.D. students. (F,S)

**DIE 6946 Advanced Supervised Dietetics Practice I (6).** Advanced practical application of knowledge and skills in a supervised practice setting. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (S)

**DIE 6947 Advanced Supervised Dietetics Practice II (6).** Continuation of advanced practical application of knowledge and skills in a supervised practice setting.

Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

**DIE 6971 Thesis in Dietetics and Nutrition (1-6).** Prerequisites: DIE 6568 or DIE 6578, 12 hours of graduate study and permission of Thesis advisor. (F,S,SS)

**DIE 7566 Research Concept Development in Dietetics and Nutrition (3).** Grant proposal writing for dietetic and nutrition research. Prerequisite: DIE 6568, STA 6166, and STA 6167.

**DIE 7980 Ph.D. Dissertation (1-12).** Research for doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

**FES 6000 Command and Control in Disasters (3).** To teach students how to manage disasters through systematic processes and methods.

**FES 6805 Disaster Field Operations (3).** Provides students with the knowledge and skills to engage in disaster work in field settings.

**FES 6806 Disaster Response and Recovery (3).** Designed to expose students to the principles and practices that promote effective disaster response and recovery operations.

**FES 6826 Disaster Preparedness and Planning Methodologies (3).** Provides a fundamental understanding about the importance of preparedness and planning, reasons for planning and identifies the people and organizations that may be involved in the planning process.

**FES 6846 Comparative Disaster Management Systems (3).** Introduction to the disaster management system applied in the U.S. and systems used to prepare and respond to international disasters.

**FES 6847 Foundations in Humanitarian Assistance and Coordination (3).** Focused on the role and responsibilities of the organizations engaged in humanitarian assistance.

**FES 6848 Disaster Health Readiness (3).** This course examines the efforts to provide humanitarian assistance from the perspective of the humanitarian agency and professional health worker in the field.

**FES 6856 Introduction to Disaster Logistics (3).** Focus on the process of planning, implementing and controlling the flow and storage of goods and materials from the point of origin to the point of consumption or use.

**FES 6857 Introduction to Vulnerability Analysis and Hazard Mitigation (3).** How to develop a community vulnerability analysis and implement mitigation and risk reduction initiatives to reduce future damage and build greater hazard resilient communities.

**FES 6858 Crisis Communications (3).** This course introduces students to the principles and practical tools of crisis communications during emergencies.

**FOS 6236 Food Toxicology & Food Safety (3).** Discusses food and water borne bacterial, parasitic, and viral infections and intoxication. Examines food additives, and contaminants. Describes toxic food constituents as well as naturally occurring toxicants. Prerequisites: Graduate standing and food science competency.

**FSS 6535 Computer Assisted Food and Nutritional Services Management (3).** Advanced course in computer analysis and utilization for detection and resolution of problems of food service and nutritional care. Prerequisites: Advanced graduate standing, DIE 6128 or equivalent, and computer competency.

**GEY 5600 Physical Change and Healthy Aging (3).** Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

**HSC 4751 Statistical Applications (3).** The intent of this course is to familiarize students with the basic approaches to social research as applied in healthcare settings. Emphasis will be placed on techniques for organizing and presenting data for policy and management decision-making.

**HSA 6505 Risk Management (3).** This course provides students with the basics for managing risk in health care systems and prepares students to obtain a Certificate of Risk Management. Prerequisite: PHC 6102.

**HSC 7935C Doctoral Seminar in Health Systems Research (2).** This doctoral seminar includes presentations by researchers and doctoral students on studies, theories, and applications related to health systems research.

**HUN 5123 Ethnic Influences on Nutrition and Food Habits (3).** Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

**HUN 5195 International Nutrition: Problems, Policies, and Planning (3).** Advanced study of magnitude, causes and nature of under nutrition in developing countries; emphasis on programs, planning and policies directed toward alleviating hunger. Prerequisite: Permission of the instructor. Recommended for non-majors.

**HUN 5245 Nutrition and Biochemistry (3).** Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: Organic Chemistry and Physiology.

**HUN 5611 Nutrition Education in the Community (3).** In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisites: Recent courses in nutrition education or permission of the instructor.

**HUN 5621 Food, Nutrition and Communication (3).** Concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis on communication via mass media. Prerequisites: Competency in food and nutrition knowledge.

**HUN 6248 Sports Nutrition (3).** The influence of exercise on specific nutrient demands and utilization of nutrients will be examined. Nutritional requirements and interrelationships between nutrition and exercise in the prevention and management of common diseases such as

obesity, hypertension, diabetes and cardiovascular disease will also be discussed. Prerequisites: Human Nutrition and Intermediate Physiology. (S, odd years)

**HUN 6254 Drug and Nutrient Interaction (3).** The interaction of drug and nutrient metabolism in relation to optimum nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

**HUN 6255 Nutrition in Wellness Program (3).** Examination of required factors for successful development, implementation and evaluation of wellness programs and investigation of interrelationships between nutrition/physical activity as means of chronic disease risk reduction. Prerequisites: Advanced Nutrition and Nutrition Education.

**HUN 6257 Physio/Psychology of Food Intake (3).** Examination of food intake regulation with applications in both research and practice. Prerequisites: Competence in nutrition and physiology.

**HUN 6266 Nutritional Assessment (3).** In-depth study of the methodology and application of nutritional assessment. Prerequisites: HUN 4241 or equivalent, DIE 3244 and Lab or equivalent, and DIE 4246 and Lab or equivalent.

**HUN 6285 Nutrition and Metabolism I (3).** Advanced study of the human nutrition of carbohydrates, lipid, fiber, thiamin riboflavin, pantothenic acid, biotin and choline. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

**HUN 6286 Nutrition and Metabolism II (3).** Advanced study of the human nutrition of protein, energy, folate, vitamin B6, vitamin B12 and water. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

**HUN 6287 Nutrition and Metabolism III (3).** Advanced study of the human nutrition of vitamins C, A, D, E, and K, and essential macro and trace minerals. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

**HUN 6295 Contemporary Issues in Food and Nutrition (3).** Critical evaluation of current controversies in nutrition and dietetics research. Prerequisites: Advanced Nutrition, Biochemistry, Physiology, Research Methods.

**HUN 6307 Carbohydrates and Lipids (3).** The biological, physiological and metabolic functions of carbohydrate and lipids as they relate to human nutrition. Prerequisites: Biochemistry, Advanced Nutrition and Physiology.

**HUN 6327 Proteins (3).** Protein metabolism, physiology and nutrition. Prerequisites: Biochemistry, Advanced Nutrition, and Physiology.

**HUN 6335 Functions of Vitamins (3).** Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, even years)

**HUN 6355 Minerals in Human Nutrition (3).** The physiological and metabolic functions of selected macro and trace minerals as they relate to nutritional status in humans. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, odd years)

**HUN 6415 Pediatric Nutrition (3).** This course is designed to apply the principles of physiology,

biochemistry and nutrition to Medical Nutrition Therapy for healthy infants, children and adolescents.

**HUN 6416 Advanced Pediatric Nutrition (3).** This course is designed to apply the principles of physiology, biochemistry and nutrition to Medical Nutrition Therapy for medically compromised infants, children and adolescents. Prerequisite: HUN 6415.

**HUN 6417 Nutrition of the High Risk Infant and Newborn in Intensive Care (3).** This course is designed to apply the principles of physiology, biochemistry and nutrition to nutrition care and planning for high risk infants and newborns in intensive care.

**HUN 6435 Nutrition and Aging (3).** Changes associated with aging and the impact of nutrition on these changes. Prerequisite: Permission of the instructor. (S, odd years)

**HUN 6522 Public Health Nutrition (3).** Development and assessment of nutrition programs for the general population throughout the life cycle. Prerequisites: DIE 3310 or equivalent.

**HUN 7408 Nutrition Across the Lifespan (3).** The course will explore social, economic, physiologic, and lifestyle factors that influence nutrition status across the stages of growth and development, maturation, and aging. Prerequisites: HUN 4403, HUN 4241, DIE 5247.

**HUN 7523 Community Nutrition (3).** Evaluate models and methodologies to identify public health nutrition issues; analyze current and historical research/nutrition policy; recognize necessary infrastructure to support policy. Prerequisites: HUN 4410, HUN 6522, PHC 6500.

**HUN 7524 Nutrition Science and Implications for Community Health (3).** Critical examination and synthesis of current human nutrition science topics with emphasis on implications to human health, nutrition, public health policy, and research. Prerequisites: Nutritional Biochemistry and Pathophysiology.

**IHS 6502 Principles of Clinical Trials (3).** Advanced study of clinical trials including research design, ethics, monitoring and analysis. Prerequisites: PHC 6706 or equivalent.

**IHS 6937 Interdisciplinary Graduate Seminar (1-3).** Multidisciplinary seminar including foundations of reasoning and investigative methods focusing on a multi-dimensional problem related to social, legal, policy, economic, and health issues. Prerequisite: Research Methods.

**IHS 6948 FIU Behavioral Health Workforce Education and Training Fellowship (0-3).** Inter-professional and integrated care training of behavioral health clinicians to competently serve the underserved, uninsured, economically disadvantaged and those with chronic health conditions. Prerequisite: Acceptance in BHWET Fellowship Corequisite: For Field Practicum II semester: SOW 6533, SOW 6425 For Field Practicum III semester: SOW 6534 and SOW 6351

**PHC 5009 AIDS: Contemporary Issues (3).** This course introduces the contemporary social and public health issues associated with the AIDS epidemic and the policies and programs designed to prevent HIV transmission.

**PHC 5108 Foundations of Public Health Practice for Social Workers (1).** This course will serve as an

introduction to applied public health (PH) for MSW level social workers, provide an overview of public health disciplines and provide exposure to its field applications.

**PHC 5158C A History of United States Health Policy (3).** Places contemporary health policy controversies into historical perspective by highlighting some of the major health-related issues that have drawn federal intervention during the past two centuries. Prerequisite: PHC 6102.

**PHC 5409 Public Health Behavior Change Theory and Practice (3).** A course for health promotion practitioners who lack formal training in behavior change foundations and strategies. The course emphasizes applications to practical development of health promotion interventions. (S)

**PHC 5415 Public Health in Minority/Urban Population (3).** Covers the scope of Public Health Issues related to minority and urban populations with an emphasis on health care status, utilization of the health care system and expenditures. (F)

**PHC 5581 Public Health Aspects of Complementary and Alternative Medicine (3).** Introduction of theory, practice and scientific evidence for complementary and alternative medicine. Emphasis on regulatory issues and quality assurance; politics of use and social, cultural and historical factors.

**PHC 5675 The Cuban Maternal and Child Health Paradox: A View from Santiago de Cuba (3).** This course consists of visits and encounters with workers in the front line of MCH in Cuba who contribute to the Cuban "paradox" (low maternal and infant mortality in a low-resource setting).

**PHC 6000 Epidemiology I: Introduction to Public Health Epidemiology (3).** This course is an introduction to the study of the distribution, determinants, and measurement of health and disease in populations, including design methods and their application. (F,S)

**PHC 6001 Environmental and Occupational Epidemiology (3).** This course covers outbreaks; cluster analysis; cross-sectional, case-control, cohort, ecological and time series designs; surveillance programs; environmental cancer; reproductive hazards, biological monitoring and biomarkers. Prerequisites: PHC 6315 and PHC 6000.

**PHC 6002 Infectious Disease Epidemiology (3).** This course covers principles specific to infectious disease epidemiology, explores the application of epidemiologic methods to infectious disease problems, and examines surveillance, and outbreak investigation. Prerequisites: PHC 6000 and PHC 6065.

**PHC 6003 Chronic Disease Epidemiology (3).** A review of selected epidemiologic research methodology as it applies to infectious and chronic diseases and its application towards understanding selected major infectious and chronic diseases from a population based perspective. Prerequisite: PHC 6000.

**PHC 6004 Injury Epidemiology and Prevention (3).** Analyzes the impact and extent of injuries as a public health problem. Issues of prevention, sources of data, environment, social and occupational aspects are included

in an epidemiological approach. Prerequisite: PHC 6000. (SS)

**PHC 6007 Cancer Epidemiology (3).** This course will provide an understanding of the epidemiological patterns, etiology and risk factors of cancer from a community and population perspective. Prerequisite: PHC 6000.

**PHC 6008 Cardiovascular Disease Epidemiology (3).** This course will increase understanding of epidemiological patterns, etiology and risk factors of selected major cardiovascular disease from a population based perspective. Prerequisites: PHC 6000, PHC 6065.

**PHC 6009 AIDS Epidemiology and Control (3).** Reviews the epidemiology, virology, immunology, and clinical aspects of HIV, and also examines its impact upon risk groups and the responses of society to the epidemic. Prerequisites: PHC 6000 and PHC 6065 or permission of the instructor. (S)

**PHC 6012 Current Research in Epidemiology (3).** This course will examine current areas of research in epidemiology and bring students into contact with researchers in various fields. Prerequisites: PHC 6000, PHC 6065. (S)

**PHC 6013 Epidemiology II: Observational Design (3).** The fundamental concepts, principles, and methods of observational epidemiologic research at an intermediate level. (S)

**PHC 6014 Behavioral Epidemiology (3).** This course will examine human behaviors as determinants of health and disease, methods of exploring these relationships, and ways of altering risk behaviors. Prerequisite: PHC 6000.

**PHC 6016 Social Epidemiology (3).** Explores the epidemiological aspects of health and medical care of the poor and disadvantaged population groups. Emphasis on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: PHC 6000 and PHC 6065 or permission of the instructor. (F)

**PHC 6020 Clinical Epidemiology (3).** A course on methods in clinical epidemiologic studies, including study design, sample size, clinical measurements, clinimetric indices, casual inference, analytic issues and clinical decision making. Prerequisites: PHC 6065, PHC 6000 or permission of the instructor.

**PHC 6033 Mechanism of Complex Disease in Public Health (3).** This course will review genetic and non-genetic epidemiologic associations with complex diseases together with the underlying biological basis for them to develop strategies for prevention. Prerequisites: PHC 6000 and undergraduate course in (human) biology.

**PHC 6034 Intermediate Epidemiology (3).** This course is designed for Public Health students requiring a more thorough knowledge of the concepts and methods used in epidemiological research. Prerequisite: PHC 6000.

**PHC 6052 Biostatistics I (3).** An introduction to basic biostatistical techniques for MPH students majoring in Biostatistics, but also open to those seeking a thorough understanding of and ability to use the essential biostatistical procedures. Prerequisites: Familiarity with basic algebra and basic calculus is important.

**PHC 6055 Data Management and Epidemiologic Analysis Using SAS/SPSS (3).** Covers practical issues related to the management, security, and analysis of epidemiologic data by creating, managing, and analyzing an epidemiologic database using statistical software packages. Prerequisite: PHC 6052, or permission of the instructor.

**PHC 6056 Longitudinal Health Data Analysis (3).** Applied longitudinal health data analysis; methods to compare different health treatments and behavioral interventions. Focus will be on models for single and multiple correlated public health outcomes. Prerequisites: PHC 6052, PHC 6091 or permission of the instructor.

**PHC 6059 Survival Data Analysis (3).** Concepts of lifetime events and survival data in Public Health; modern methods used to analyze time-to-event data; non-parametric and parametric models. Prerequisite: PHC 6052, PHC 6091, or permission of the instructor. Corequisite: PHC 6091.

**PHC 6060 Principles and Approaches to Biostatistical Consulting (3).** The course specifically addresses the process of providing biostatistical consulting support for public health, medical and clinical research. Prerequisites: PHC 6052, PHC 6091, PHC 6093.

**PHC 6062 Systematic Reviews and Meta-Analysis (3).** This course is designed to train students in the conduct of a systematic literature review and developing the skills critical for evidence-based clinical and public health practice.

**PHC 6063C Health Policy Database Applications I (3).** In this course students identify and manage secondary data to obtain quantitative evidence to support public health/health system decision making. Prerequisites: PHC 6000, PHC 6065

**PHC 6064 Applied Statistical Methods for Discrete Data (3).** This course will offer students a focused introduction to statistical models for the analysis of binary medical and public health data. The course will provide an introduction to the application of statistical models for PH outcomes in epidemiology, dietetics and nursing. Prerequisite: PHC 6052 or permission of the instructor.

**PHC 6065 Public Health Statistics (3).** Covers the basic concepts and tools for non-biostatisticians, including descriptive statistics, confidence intervals, hypothesis testing, the basic statistical tests and data presentation. (F,S)

**PHC 6067 Probabilistic Graphical Models (3).** Concepts and implementation of Probabilistic Graphical Models, comparative study the models, and their suitability for various datasets. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

**PHC 6080 SAS Computing for the Health Sciences (3).** Course covers essential computer-based techniques for the SAS system for data management and statistical analysis relevant to public health. Topics include: programming techniques, macro programming, and SQL with SAS. Prerequisites: PHC 6052, PHC 6091 or permission of the instructor.

**PHC 6084 Introduction to Bayesian Inference (3).** This course will introduce students to probabilistic statistical inference using the Bayesian approach, as well as equip

students to perform basic computing within the Bayesian statistical framework. Prerequisite: PHC 6052 and PHC 6091.

**PHC 6086 Cluster Analysis for Public Health (3).** This course introduces data matrix, types of data, measures of similarity, hierarchical and non-hierarchical clustering methods, density based methods, clustering trees, and number of clusters. Prerequisites: PHC 6065 or an equivalent, basic calculus and linear algebra.

**PHC 6087C Health Policy Database Applications II (3).** Students will analyze secondary data and communicate results to inform evidence-based public health/health system decision making. Prerequisite: PHC 6102, PHC 6063C

**PHC 6090 Advanced Public Health Statistics (3).** Public Health Statistics continuation. Covers the concepts and interpretation of randomized blocks and factorial ANOVA, multiple, logistic and proportional hazards regression techniques and survival analysis. Prerequisite: PHC 6065.

**PHC 6091 Biostatistics 2 (3).** Continuation of Biostatistics I. Covers advanced methods for ANOVA, different regression and correlation techniques and survival analyses. Prerequisite: PHC 6052.

**PHC 6093 Biostatistical Data Management Concepts and Procedures (3).** Covers procedures and tools for data management, including data collection, transfer, handling, quality and security issues for research projects for public health, medicine and related fields.

**PHC 6099 R Computing for Health Sciences (3).** This course will introduce R statistical software computing and analytics associated with topics discussed in Biostatistics I and II. Prerequisite: PHC 6052 Biostatistics I or equivalent statistics course with permission of instructor. Corequisite: PHC 6091 Biostatistics II or permission of instructor.

**PHC 6102 Introduction to Public Health Policy and Management (3).** This core public health course introduces students to comparative health systems and policies in the United States and globally with key concepts and methods in policy assessment and evaluation.

**PHC 6103 Introduction to Applied Public Health (3).** This course will serve as an introduction to applied public health and provide an overview of core public health disciplines with hands-on exposure to its application in the field.

**PHC 6104C Public Health Management and Leadership (3).** This course integrates theory with practice by examining management, leadership and organizational behavior in public health organizations.

**PHC 6110 Health Risk Appraisal (3).** Health promotion technique designed for identifying personal health risks and the use of these methodologies for inducing behavioral change. Evaluation of the effectiveness of various health appraisal instruments. Prerequisite: Biostatistics and Epidemiology.

**PHC 6113 Community Health Promotion Planning and Research (3).** This course allows students to develop and apply the research principles necessary for needs assessments, planning, implementation, and evaluation of

health promotion programs for diverse populations. Prerequisite: PHC 6410

**PHC 6118 Population Health Management and Improvement I (3).** This course is an introduction to population health management, an emerging model in healthcare delivery that involves moving from individual-based episodic healthcare to a population health model. Prerequisite: PHC 6102.

**PHC 6146 Health Promotion Program Planning and Intervention Design (3).** The principles of and practices of health promotion program planning and design, development, testing of behavioral interventions are described and explained in this course. Prerequisites: PHC 6410, PHC 6706, PHC 6065.

**PHC 6147C Continuous Quality Improvement in Healthcare Organizations (3).** This course covers continuous quality improvement (CQI) strategies in healthcare and health systems, including foundational concepts in patient safety and quality, leadership, teams, and systems. Prerequisite: PHC 6102

**PHC 6148 Strategic Planning for Healthcare Organizations (3).** This course introduces students to strategic planning for healthcare organizations encouraging modern business approaches, including the planning process and using data to identify growth opportunities. Prerequisite: PHC 6102.

**PHC 6150 Public Health Policy Analysis and Formulation (3).** Strategies for formulating public health policy; political processes; resource allocation, organization, and participation. Examination of current policy issues and efforts to effect change. (SS)

**PHC 6154C Evidence Synthesis Applied to Clinical Settings and Health Policy-Making (3).** This decision-making processes in health-policy and clinical settings and describes methods for communicating evidence synthesis to its end-users. Prerequisites: PHC 6000, PHC 6065.

**PHC 6155C Health Policy Analysis (3).** Students will analyze public health and health care policies from multiple perspectives, communicate health policy issues via written reports, and develop the capacity to collaborate with peers. Prerequisite: PHC 6065.

**PHC 6160 Public Health Budgeting and Financial Management (3).** The course covers the analysis of healthcare financial statements, cost allocation, and budgeting. It introduces the basic concepts of accounting and reimbursement methods of healthcare organizations.

**PHC 6183 Disaster Risk and Emergency Management in Public Health I (3).** This course meets the demand for new management strategies and skills that will permit an orderly, structured, effective, and flexible approach to health emergency preparedness and response.

**PHC 6185 Disaster Risk and Emergency Management in Public Health II (3).** This course meets the demand for new management strategies and skills that will permit an orderly, structured, effective, and flexible approach to health preparedness and response. Prerequisite: PHC 6183.

**PHC 6190 Biostatistical Methods for Survey Research (3).** Discusses the biostatistical issues for sample surveys in the health sciences. Includes the use of national/state

health databases. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

**PHC 6251 Disaster and Emergency Epidemiology (3).** Disaster and Emergency Epidemiology studies the public health response to natural disasters, environmental emergencies and perpetuated acts of terrorism.

**PHC 6256C Population Health Management and Improvement II (3).** This is second in a two-course sequence. This course moves students from the conceptualization of population health management issues and initiatives to real-world implementation and evaluation. Prerequisites: PHC 6102 and PHC 6118.

**PHC 6307 Exposure Assessment in Environmental and Occupational Epidemiology (3).** Surveys available mechanisms utilized by public health and environmental agencies to monitor levels of pollution, environmental quality, and change in environmental conditions which impact human health. Prerequisites: PHC 6000, PHC 6065, PHC 6315. (SS)

**PHC 6310 Environmental Toxicology (3).** Theory and practice of occupational and environmental toxicology; health effects of toxins in humans; principles of toxicology; toxicokinetics; and health effects of toxins on organ systems. Prerequisite: PHC 6315.

**PHC 6311 Environmental Health Risk Assessment (3).** This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach. Prerequisite: PHC 6315. (S)

**PHC 6312C Health Impacts of Air, Water and Land Pollution (3).** The course covers the impact of air, water and land pollution on human health/well-being and on the whole environment plus pollution and control measures of each kind of pollution. Prerequisite: PHC 6315.

**PHC 6315 Introduction to Environmental Health Sciences (3).** An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and surveillance responsibilities authorized in the public sector. (F,S)

**PHC 6316 Environmental Health Management (3).** The course provides the student with skills in management of the programs dealing with food, water, waste, radiation, workplace, air, energy, human establishments, and humanitarian challenges. Prerequisites: PHC 6315 or permission of the instructor.

**PHC 6326 Emerging Environmental Health Issues (Local/County, State, U.S., and Global) (3).** This course is designed to provide students in environmental health with a step-by-step guide to the practical application of knowledge already acquired in environmental and occupational health sciences.

**PHC 6328 Molecular and Cellular Toxicology (4).** The course is designed to provide a mechanistic understanding of how environment agents result in toxicity at the cellular and molecular level through interactions with receptors, enzymes, and DNA.

**PHC 6329 Biomarkers (3).** This course will provide an understanding of the principles, identification, validation and application of molecular biomarkers, and their use health/disease risk assessment in human populations.

**PHC 6355 Environmental Health and Safety (3).** The course covers recognition of environmental hazards and injuries and the principles of environmental safety including regulations, standards and models of accident causation at work places. Prerequisite: PHC 6315.

**PHC 6356 Fundamentals of Industrial Hygiene (3).** The course covers recognition, evaluation, and control of chemical biological and physical agents in the workplace; application to exposure, control measures, and standard setting procedures. Prerequisite: PHC 6315.

**PHC 6374 Environmental Disasters and Human Health (3).** This course will provide an overview of environmental disasters and the measures designed to reduce the impact of disasters on Environmental Health. It aims to strengthen the ability of people to withstand the disruption of their accustomed infrastructure and systems for environmental health.

**PHC 6380 Introduction to Neurotoxicology (3).** This master-level course will provide students a knowledge of how environmental neurotoxicants may impact the development and progression of brain diseases such as Alzheimer's and Parkinson's.

**PHC 6382C Neuropharmacology (3).** This course introduces fundamental concepts in neuropharmacology, such as pain relief and mood modulation, and describe how environmental factors affect drug actions in the nervous system.

**PHC 6383C Neurobehavioral Techniques (3).** A master's level course designed to introduce students to neurobehavioral methods used in the research lab and clinic to assess the effects of environmental exposures. Prerequisite: PHC 6380, PHC 6382C

**PHC 6410 Health Behavior and Public Health (3).** The overall goal of this course is to introduce the student to the learning and behavioral science theories that provide the framework for the practice of health promotion and public health. Prerequisites: Public Health major or permission of the instructor. (F,S)

**PHC 6412 Health Promotion in Culturally Diverse Communities (3).** This course will examine both analytical and practical approaches to cultural competency, cultural humility, and addressing the public health needs of culturally diverse communities.

**PHC 6422 Regulatory Aspects of Environmental Health Sciences (3).** The application of law as it relates to the environment and human health. Legal process and rule-making; cost-benefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: PHC 6000, PHC 6065 and PHC 6315. (S)

**PHC 6430C Public Health Economics (3).** This course focuses on the application of basic microeconomics tools to the analysis of consumers', producers', and insurers' behavior in the market for health care. Prerequisite: PHC 6065 or permission of the instructor.

**PHC 6436 Advanced Issues in Economic Evaluation of Health Care Programs (3).** This course presents applications of economic evaluation issues including cost analysis, health outcomes, and health state utilities. Prerequisites: PHC 6065, PHC 6430.

**PHC 6441 Epidemiology of Health Disparity (3).** This course is designed to provide an overview and understanding of Health Disparity, its indicators, measuring methods and models as well as theoretical underpinning for explanation of Health Disparity. Prerequisites: PHC 6000 and PHC 6065.

**PHC 6442 Global Environmental Public Health (3).** This graduate level course addresses global public health issues by integrating the complex molecular, biological, environmental, technological and social system interactions causing diseases. Prerequisites: PHC 6315 or PHC 6312 or by instructor's permission and IDS 3189 or IDS 3183.

**PHC 6443 Ethical Issues in Public Health (3).** This course provides an overview of ethical principles, perspectives, and decision-making in public health. (F,S)

**PHC 6465C Public Health and Medicine in History (3).** This course introduces students to central themes and questions pertaining to the history of medicine, public health, and health care in the United States.

**PHC 6500 Foundations of Public Health Practice (3).** Philosophy, nature, and scope of public health; organization and administration; principles of disease prevention and health promotion; current issues and trends; socioeconomic and political forces. Prerequisites: Public Health major or permission of the instructor. (F,S,SS)

**PHC 6504 Introduction to Public Health Education and Wellness (3).** Primarily intended to introduce graduate students to concepts and principles underlying the use of Public Health and Behavioral Strategies to positively influence behavioral patterns. Prerequisites: Public Health major or permission of the instructor. (S)

**PHC 6510 Advanced Infectious and Tropical Disease Epidemiology (3).** Course covers advanced principles specific to tropical infectious disease biology, immunology, pathogenesis, epidemiology, and investigation strategies relevant to S Florida, Caribbean, Latin America. Prerequisite: PHC 6000 and PHC 6002

**PHC 6520 Public Health Aspects of Foodborne Diseases (3).** Examines the scope of the foodborne disease problem; factors that contribute to outbreak of foodborne disease; strategies for the prevention and control of these diseases are explored. Prerequisites: PHC 6000, PHC 6065, and PHC 6315. (SS)

**PHC 6530 Principles of Maternal and Child Health (3).** Covers the scope of the field of maternal and child health with emphasis on the needs of infants, children, youth, women and families in the reproductive cycle and programs designed to meet these needs. Prerequisites: Public Health major or permission of the instructor. (S)

**PHC 6531 Environmental Justice: Contextualizing Maternal and Child, Women, Youth, and Family (WYF) Wellbeing (3).** Explores disparities in exposures to environmental agents and conditions and related adverse events and outcomes relevant to maternal, child,

reproductive, and family health and approaches to respond.

**PHC 6536 Health Demography (3).** The study of basic population structure, composition, trends and relationship to health status. Implications of demographic trends, policies for public health; population growth, immigration, infant mortality. Prerequisites: PHC 6065 or permission of the instructor. (SS)

**PHC 6537 Case Studies in Maternal and Child Health Programs, Policies and Research (3).** Seminar course focused on intended and unintended impact of programs and policies on the health of women and children from a life course perspective, identifying research gaps and needs. Prerequisite: PHC 6530 or permission of the instructor. Corequisite: If student has not taken PHC 6530, should be taken concurrently.

**PHC 6538 Gene & Environment Interaction (3).** Genetic issues and topics that impact on Public Health will be covered such as HW gene frequencies and HUGO. A public health perspective with a field of study.

**PHC 6580 Contemporary Issues in Health Promotion (3).** Current problems and findings in health promotion content areas such as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: PHC 6000 and PHC 6065. (SS)

**PHC 6589 Health Promotion in Institutional Settings (3).** This course will investigate the role, methods and techniques used to promote health in diverse settings such as clinic and community agencies, schools, universities and workplaces. (SS)

**PHC 6591 Reproductive Health Epidemiology (3).** This course focuses on current research, methodological issues, and discusses case studies in the epidemiology of reproductive and perinatal health from domestic and international setting. Prerequisites: PHC 6000 and PHC 6065.

**PHC 6595 Genetic Epidemiology (3).** This course provides a background to genetic epidemiologic methods, and focuses on design, execution, analysis and interpretation of genetic association studies. Basic genetics will also be covered. Prerequisites: PHC 6000 or approval by instructor.

**PHC 6600 Health Promotion Communication Theory and Design (3).** Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisites: Health Promotion Concentration or by permission of the instructor. (F)

**PHC 6601 Emerging Issues in Public Health (3).** Investigation of emerging public health issues, such as public health informatics, genomics, global health, policy and law, and public health ethics, within the framework of ecological model.

**PHC 6602 Theoretical Foundations of Health Promotion (3).** The course will emphasize the use of psychosocial theories in understanding and addressing public health problems. Prerequisites: PHC 6410, PHC 6065.

**PHC 6604 Current Issues in Health Policy (3).** This course is an intervention of current public health policy issues, such as chronic disease, health disparities, and healthcare reform within a policy analysis framework.

**PHC 6700 Methods and Analysis in Epidemiological Research (3).** This course provides understanding of principles, methods and analytical techniques applied in epidemiologic research using multimedia and interpersonal approaches of instructions to motivate and explain with real life examples. Prerequisite: PHC 6000.

**PHC 6701 Advanced R Computing (3).** This course will introduce writing statistical computing and data science code in R covering data structures, graphics, reports, functions and scripts for analysis pipelines. Prerequisite: PHC 6099 or equivalent computational statistics course (with instructor permission).

**PHC 6703 Epidemiology Methods: Experimental Design (3).** Introduction to clinical and community trial design and conduct, randomization, blinding, recruitment, data collection, assessment of adverse effects, compliance with therapy, and analyses. Prerequisites: PHC 6013, PHC 6xxx – Public Health Statistics II.

**PHC 6706 Research Methods in Public Health (3).** Study of scientific research, inductive and deductive thinking, research methods and design as applied to the field of Public Health. Prerequisite: Undergraduate statistics course.

**PHC 6709 Quantitative Research Analysis in Health Urban Affairs I (3).** Application of quantitative techniques used for research analysis in health and urban affairs research and practice settings. Prerequisites: STA 3145 or STA 6166 or equivalent.

**PHC 6715 Survey Research in Public Health (3).** Health survey design, implementation and analysis, and interpretation of data. Emphasis on practical aspects of conducting health surveys. Study of existing health surveys. Prerequisites: PHC 6000 and PHC 6065. (F,S)

**PHC 6730C Neurotoxicology Research Methods (3).** A master's level course designed to introduce students with fundamental approaches in neurotoxicology and interpreting research results in environmental health sciences. Prerequisite: PHC 6380.

**PHC 6750 Program Development and Evaluation in Health Promotion (3).** Focuses on the development, implementation, and evaluation of health promotion programs to improve health outcomes. Prerequisites: PHC 6000 and PHC 6065. (SS)

**PHC 6751 Community Organization for Health Promotion (3).** Emphasis is on the diagnosis of community health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisites: Health Promotion Concentration or permission of the instructor. (F)

**PHC 6754C Analytic Methods in Maternal and Child Health (3).** Enhances skills in independent data analysis using free software (Epi Info, OpenEpi) and publicly available data in local and state health agency professionals and students preparing for MCH practice.



**PHC 6762 International Public Health (3).** This course describes international differences in the distribution and determinants of disease and health, and examines interventions aimed at improving health status. (F)

**PHC 6763 Global Perspectives of Environmental Health in Caribbean and Latin America (3).** The course describes the relationship between human health and the environment in developing countries of the Caribbean and Latin America. Prerequisite: PHC 6315.

**PHC 6900 Environmental Public Health Genomics and Molecular Toxicology Journal Club (1).** Students will learn to read, evaluate, present and discuss papers. Papers will be presented on a diverse set of topics related to genetics of environmental human diseases and molecular toxicology.

**PHC 6901 Readings in Public Health (1-3).** Individual advanced study in a comprehensive overview of Public Health or in-depth advanced study of a specialty. Prerequisites: Permission of instructor and Advanced standing in the graduate program.

**PHC 6907 Independent Study: Public Health (1-3).** Allows student investigations of special topics and issues utilizing literature searches, analysis, or active performance in public health settings under the direction of faculty supervision. Prerequisite: Permission of the faculty advisor.

**PHC 6914L Current Topics in Environmental Health Sciences Research Lab (1-9).** To conduct laboratory based analytical research and collect data.

**PHC 6920 Special Topics in Environmental Health Sciences (3).** This course is designed to impart in depth knowledge of emerging issues in the area of environmental and occupational health.

**PHC 6921 Environmental Health Sciences Seminar (1).** This is an oral communication course intended to provide graduate students the opportunity to practice speaking in front of an audience and to present their research data or topic of interest.

**PHC 6930C Integrative Seminar in Public Health (3).** Integrative Seminar serves as the culminating experience for MPH degree and the final assessment of the public health competencies required of MPH graduates. Prerequisites: PHC 6945 or instructor consent, if exempt from PHC 6945.

**PHC 6931 Special Topics in Biostatistics (1-3).** This is a series of 1-3 credit hour offerings, on topics of considerable interest to advanced masters and doctoral students in public health, not limited to statistical methods. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

**PHC 6934 Scientific Writing and Oral Presentations in Epidemiology and Biostatistics (3).** Covers the planning and execution of written and oral presentations in epidemiology/biostatistics by critically evaluating published articles and preparing a manuscript and an oral presentation. Prerequisites: PHC 6000 and PHC 6065.

**PHC 6939 Special Topics in Cardiovascular Disease Epidemiology (3).** The purpose of this course is designed to impart in-depth knowledge of a particular cardiovascular disease or risk factor that is affecting populations

nationally and or internationally. Prerequisites: PHC 6000, PHC 6065, or permission of the instructor.

**PHC 6945 Practicum in Public Health (3).** This course is a preceptor-guided experience in public health organization. It provides an opportunity for graduate students in Public Health to bridge the gap between theory and practice. Prerequisite: Permission of the faculty advisor. (F,S,SS)

**PHC 6971C Master's Thesis in Public Health (1-6).** The Master's Thesis is a scholarly manuscript resulting from a long period of research and related preparation, undertaken to fulfill partially the requirements of an advanced degree.

**PHC 6977 Master's Research Project (3).** Course provides the student with an opportunity to pursue research in an area pertaining to Public Health.

**PHC 7011 Advanced Current Research in Epidemiology (3).** The purpose of this course is to examine and critically review current areas of research in Epidemiology with focus on observation studies. Prerequisites: PHC 6000, PHC 6013, PHC 6065 or equivalent.

**PHC 7015 Advanced Research Methods-Experimental Design (3).** A course on methods in experimental epidemiologic studies, including randomization, blinding, assessment of adverse effects, compliance, and intent-to-treat, survival and subgroup analyses. Prerequisites: PHC 6000, PHC 6065, PHC 6013.

**PHC 7017 Advanced Epidemiology for Health Disparity (3).** Provides advanced understanding of health disparity - disparity indicators, complex measurement methods and applications, theoretical frameworks, and analysis and evaluation of programs/policy. Prerequisites: PHC 6055 and PHC 6065 or equivalent.

**PHC 7018C Advanced Environmental Health (3).** The objective of this course is to teach students advanced toxicology principles such as toxicokinetics, polymorphisms of metabolizing enzymes, toxicogenomics, and biomarkers of toxic exposure. Prerequisite: PHC 6310.

**PHC 7050 Advanced Biostatistics I (3).** Introduction to mathematical expectation of random variables, probability distributions, moment generating functions, sampling, covariance and correlation, point estimation of distribution parameters.. Admission to the PhD program in Biostatistics, or satisfactory completion of the following undergraduate courses or their equivalents: MAC 2311-2313, MAS 3105, STA 3111-3112, STA 3163-3164, MAA 3200, STA 4321-4322, MAA 4211-4212.

**PHC 7051 Advanced Biostatistics II (3).** Familiarize students with the likelihood principle, point estimators, interval estimators, hypothesis testing, Bayesian point and interval estimators, and asymptotic evaluations. Prerequisite: PHC7050 or equivalent (permission from instructor).

**PHC 7054 Advanced Biostatistics III (3).** Generalized linear model and estimating equation approaches for non-linear public health data. Held in the Public Health Informatics Laboratory utilizing various statistical software. Prerequisites: PHC 7050, PHC 7051, or permission of the instructor.

**PHC 7064 Applied Structural Equation Modeling (3).** Will introduce the application of SEM to public health data including model specification, path analysis, testing fit, confirmatory factor analysis, longitudinal data analysis, and the interpretation. Prerequisite: PHC 6052 and PHC 6091 or equivalent courses (with instructor permission)

**PHC 7083 Advanced Bayesian Inference (3).** This course will cover advanced topics related to Bayesian methods such as prior assumptions, hierarchical modeling and computational MCMC methods with various sampling algorithms. Prerequisite: PHC 6084 or equivalent

**PHC 7095C Advanced Methods for Health Systems Research (4).** This course focuses on quantitative research methods using secondary data and introduces students to a wide spectrum of national and global health policy databases. Prerequisite: PHC 6091.

**PHC 7162 Grant Writing in Public Health (3).** Course covers proposal writing political/social aspects of "grantmanship" identifying sources of grant funding doing research to support the application, and tailoring the proposal to specific audiences. Prerequisites: PHC 6091, PHC 7705, PHC 7981.

**PHC 7198 Advanced Qualitative Methods in Public Health (3).** Advanced research design, data analysis and writing findings in qualitative research. Prerequisites: PHC 6706, PHC 6715, or equivalent advanced research methods.

**PHC 7300 Biological Basis of Environmental Diseases (4).** This course describes the state of homeostasis of anatomical and physiological systems where contributing environmental factors are translated to influence the human health and diseases.

**PHC 7327 Emerging Issues in Environmental Health Sciences (2).** This course will explore emerging scientific discoveries to understand environmental human disease and how the emerging technologies can be applied to environmental health and regulatory decisions.

**PHC 7372 Signal Transduction in Environmental Health and Toxicology (3).** Designed to develop critical and analytical thinking about how hazardous agents interfere with normal signaling while others may mimic endogenous stimulants and mediators.

**PHC 7374 Organ-Specific Toxicology (4).** Provides an advanced understanding of the responses of specific, key organ systems (e.g. immune, renal, hepatic, reproductive) to toxic insult.

**PHC 7381C Neuroscience (4).** This course will familiarize doctoral students with fundamental concepts in neuroscience with emphasis on the role of environmental factors play in the modulation of neurological processes.

**PHC 7384 Advanced Neurotoxicology (4).** This doctoral course will provide students an in-depth knowledge of how various environmental neurotoxicants may induce neurotoxicity resulting in neurodegeneration as seen in some brain diseases. Prerequisite: PHC 7381C

**PHC 7385C Emerging Issues in Neurotoxicology (2).** This course will require doctoral students to integrate media reports and scientific literature to develop socially-relevant and impactful hypotheses for research in

environmental health sciences. Prerequisite: PHC 7381C, PHC 7384.

**PHC 7437C Applied Economic Evaluation for Health Systems Research (4).** This course is an advanced methods course focuses on the economic evaluation of health policies, programs, and systems. Prerequisites: PHC 6091, PHC 7095C.

**PHC 7466 Policy and Advocacy in Global Health Disparities (3)** This course focuses on the influence of policy and advocacy on health disparities in the United States, Caribbean region and globally and other structural factors impacting disparity.

**PHC 7502 Health Promotion in the Workplace (3).** This course emphasizes program design, management, and evaluation of health promotion in corporations. Issues in health assessment, fitness, wellness, and stress will be covered. Prerequisites: PHC 6589, PHC 6410.

**PHC 7583 Policy and Practice in Health Promotion (3).** Intensive exploration of health promotion policies with critical analysis. Preparation to develop effective policies and to assess the appropriate practice of health promotion or different levels.

**PHC 7584 Advanced Research Designs (3).** This course reviews and critically evaluates multiple research methods of analysis from disciplines such as psychology and sociology as they apply to health promotion research and ethics. Prerequisites: PHC 6750 and PHC 6146 or permission of the instructor.

**PHC 7587 Theory Development in Health Promotion (3).** Discussion and critique of the structural components and research processes related to the origination and construction of health promotion theories. Prerequisites: PHC 5409 and PHC 6602.

**PHC 7588 History and Foundations of Public Health (3).** This course reviews the evolution of the public health profession and the principles and practices of health promotion. Prerequisites: advanced standing.

**PHC 7606 Tobacco Use: Causes, Consequences, and Control (3).** The course will utilize a broad approach to provide a comprehensive overview of the history, epidemiology, health effects, and policy aspects of the tobacco epidemic. Prerequisites: None for PhD students, and core courses for MPH students.

**PHC 7702 Advanced Measurement in Public Health (3).** Advanced course in measurement and evaluation in public health. Computer applications for public health practice emphasized. Prerequisites: PHC 6065, PHC 6715, PHC 6750.

**PHC 7705 Methods in Evidence Based Public Health (3).** Review of methods in evidence based public health; study designs addressing patient reported outcome measures; health status measures, area-based health intervention evaluation, quality of life and survival measures in health interventions. Prerequisite: PHC 6065.

**PHC 7711 Methodological Issues in Scientific Inquiry of Public Health Research (3).** Understanding and application of analytical methods in the philosophy of science in order to explore systematically the critical methodological issues underlying public health research. Prerequisite: Doctoral standing.

**PHC 7713 Advanced Environmental Toxicology Research Methods (2).** Students will gain an appreciation and knowledge of key methods in environmental toxicology, and how to apply these to the design, execution, and analysis of environmental health case studies. Prerequisites: PHC 6001, PHC 6065, Ph.D. standing or advanced MPH student with departmental approval.

**PHC 7716 Advanced Research Methods: Survey Research (3).** Conceptualization of survey research including how to conduct a survey and present results for professional publication. Prerequisites: PHC 6706, PHC 6065.

**PHC 7719 Multivariate Methods in Health Sciences Research (3).** Advanced statistical methods for analysis of multivariate data and related statistical inference in public health and biomedical research. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

**PHC 7723 Survey Research in Public Health (3).** This course facilitates the systematic identification, interpretation, and understanding of survey research concepts, principles, and practices in public health. Prerequisites: PHC 6000, PHC 6065, PHC 6410, PHC 6706.

**PHC 7731C Advanced Neurotoxicology Research Methods (2).** A rigorous doctoral level course designed to familiarize students with fundamental approaches in neurotoxicology necessary for conducting cutting-edge research in environmental health sciences. Prerequisite: PHC 7381C Corequisite: PHC 7384.

**PHC 7732C Research Ethics & Scientific Integrity (1).** This course will introduce and familiarize students with basic elements of research ethics using real-life scenarios to create a foundation of responsible research conduct.

**PHC 7733 Theoretical Paradigms in Health Disparities Research (3).** This course focuses on the concept of cultural and social diversity in public health and its importance in guiding policy, programs, services, and health within a community.

**PHC 7753C Applied Econometrics for Health Systems Research (4).** This methods course focuses on using econometrics methods to identify causal relationships using cross-sectional or panel data for health systems research. Prerequisites: PHC 6091, PHC 7095C.

**PHC 7908C Health Systems Research Readings 1 (3).** This is the first of a two-semester course sequence for doctoral students covering the main components of health system in the U.S. and abroad, and the diverse ways in which researchers analyze them. Prerequisite: Permission of the instructor.

**PHC 7909C Health Systems Research Readings 2 (3).** This is the second of a two-semester course sequence for doctoral students covering the main components of health systems in the U.S. and abroad, and the diverse ways in which researchers analyze them. Prerequisite: Permission of the instructor.

**PHC 7917 Environmental and Occupational Health Sciences Pre Doctoral Research (1-6).** This course is designed to provide the Pre-Doctoral student with experience in the conduct of a research project with

guidance from appropriate environmental and occupational health faculty.

**PHC 7932 Health Disparities Training and Development Seminar (3).** This course focuses on health disparities development and research training in the areas of HIV, substance abuse, obesity, and diabetes with a focus in the United States and the Caribbean region.

**PHC 7933 Seminar in Biostatistics (1-6).** Course emphasis on the biostatistical methods used in research. Various biostatisticians will present their current research and lead class discussions on the development of their research agenda. Prerequisites: PHC 7050, PHC 7051, PHC 7054.

**PHC 7980 Dissertation (1-12).** Research for doctoral dissertation under the supervision of a major professor and a doctoral committee. Prerequisites: Permission of instructor and doctoral candidacy.

**PHC 7981 Research Concepts and Proposal Development (3).** The purpose of this course is to present the basic general components of research, to describe methods, and to present perspectives specifically and directly applicable to the field of public health. Prerequisites: PHC 6091 or equivalent.

**PHC 7982 Public Health Pre Dissertation Research (1-6).** This course is designed to provide Doctoral students with the guidance necessary to prepare for comprehensive examination and dissertation proposal under the guidance of the dissertation chair. Prerequisites: Admission into the Ph.D. program, instructor consent, completion of coursework.

**SOW 5105 Human Behavior and the Social Environment I (3).** Study of individuals and families with emphasis on the analysis of biopsychosocio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology (including coverage of human biology).

**SOW 5109\* Crises in the Lives of Women (3).** An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, domestic violence, rape, abortion, childbirth, sex discrimination, AIDS, climacteric, widowhood. Prerequisites: Senior or graduate standing.

**SOW 5116 Trauma Theory and Interventions (3).** This course will provide an overview of theories related to trauma over the lifespan and skills necessary to assess and intervene in situations involving trauma. Prerequisites: SOW 5105, Human Biology, Human Behavior, and Social Environment or similar. Corequisites: Social work major or similar field.

**SOW 5155\* Social Work Practice with Sexual Problems (3).** Skills applicable to sex-related concerns encountered in social work practice. Presents theories of the etiology of common sexual problems and explores treatment intervention modalities. Prerequisites: Graduate or senior level practice course or permission of the instructor.

**SOW 5235 Social Welfare Policy and Services I (3).** This course analyzes major social welfare policies and

programs in the United States, their emergence, development, contemporary operations and how they shaped the development of the Social Work profession.

**SOW 5240\* Advanced Interventions in Child Maltreatment (3).** This course will examine best practices in the health, mental health, and socio-emotional development of children and adolescents within the child welfare system. Prerequisites: SOW 5105 and SOW 5342 or advanced standing status.

**SOW 5241\* Advanced Child Welfare Policy and Practice (3).** This course will explore professional practice and policy issues in child welfare, with emphasis on intervention in child maltreatment. Prerequisites: SOW 5235 and SOW 5105 or advanced standing status.

**SOW 5324 Theory and Practice With Groups (3).** Study and application of biopsychosocial, cultural dimensions, theories, techniques and intervention strategies for social work group practice. Prerequisite: SOW 5342. Corequisite: SOW 5532.

**SOW 5342 Social Work Practice with Individuals and Families (3).** This course is an overview of social work practice with individuals and families placing emphasis on professional values, interviewing skills, assessment, intervention, and outcome evaluation, all within a cross-cultural perspective. Pre/Corequisite: SOW 5105. Corequisite: SOW 5379L.

**SOW 5344 Theory and Practice with Communities and Organizations (3).** Study and application of biopsychosocio-cultural dimensions, theories, techniques and intervention strategies for communities and organizations. Focuses on empowerment of populations at risk and promotion of social and economic justice.

**SOW 5354\* Crisis Intervention in Social Work Practice (3).** This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisites: Senior or graduate level practice course, or permission of the instructor.

**SOW 5365\* Behavior Therapy in Social Work Practice (3).** Overview of the principles, clinical foundations, and applications of socio-behavioral approaches relevant to social work practice. Emphasis on behavioral change methods and problem solving in assessment, intervention, and evaluation. Prerequisite: SOW 5342 or Advanced Standing Status.

**SOW 5379L Interviewing Skills Lab (3).** Competency-based course providing graduate students with basic interviewing skills for social work practice. Emphasis is on acquisition of interviewing behavior rather than theory. Corequisite: SOW 5342.

**SOW 5404 Social Work Research Methodology (3).** This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics.

**SOW 5455\* Writing and Managing Grants for Social Service Programs (3).** Prepare students to write, develop and manage grants for social services programs. Develop

knowledge of grant sources, the grant making, writing and management of grant funded social welfare services. Prerequisite: SOW 5344.

**SOW 5532 Field Practicum I (3).** The first masters-level field practicum and seminars that provide students with the opportunity to apply and integrate generalist social work knowledge and skills. Prerequisites: SOW 5105, 5235, 5342, 5404, 5379L. Pre/Co-Req: SOW 5629, 5344. Corequisite: SOW 5324.

**SOW 5541\* Advanced Standing Seminar (2).** This course examines the integration of academic knowledge and social work skills that develop the profession's critical thinking foundation. Prerequisites or Corequisites: SOW 6125, SOW 5324.

**SOW 5605\* Medical Social Work (3).** Principles of medical social work practice in hospitals and communities. Focuses on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisites: Graduate or senior standing.

**SOW 5607\* Social Work Practice and Psychopharmacology (3).** Social work practice, research, and policy in relation to psychotropic drugs including effectiveness and limitations of main drug classes and ethical, professional, legal, scientific and cultural issues. Prerequisites: Graduate or senior standing.

**SOW 5614\* Social Work Practice with Persons Affected by Domestic Violence (3).** Course prepares students to appropriately identify, assess, and intervene with persons affected by domestic violence utilizing assessment and intervention strategies in practice. Prerequisites: Graduate or Senior standing with the permission of the instructor.

**SOW 5621\* Social Work with Refugees, Immigrants, and Migrants (3).** Provides skills and knowledge responsive to the needs of immigrants and refugees and addresses influences of cultural, ethnic, gender, age, and class differences in acculturation and service delivery. Prerequisites: Graduate or Senior standing with the permission of the instructor.

**SOW 5624\* Feminist Therapy in Social Work (3).** Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisites: Graduate standing or permission of the instructor.

**SOW 5629 Social Work Practice with Diverse Populations (3).** Prepares students for responsive practice with diverse populations, with emphasis on South Florida. Includes knowledge and skills in interviewing, assessment interventions, termination, and follow-up. Prerequisite: SOW 5342.

**SOW 5635\* School Social Work Practice (3).** Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice to improve the functioning of children. Prerequisite: SOW 5342 or Advanced Standing Status.

**SOW 5640\* Foundations in Gerontology for Health Professions (3).** Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

**SOW 5641\* Understanding the Process of Aging (3).** Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and permission of the instructor.

**SOW 5672\* Animal Assisted Treatment for Social Work (3).** An introduction to the human animal bond and animal assisted treatment. There will be illustrations of programs using small animals, horses, and dolphins. Prerequisites: Graduate or permission of instructor.

**SOW 5710\* Current Issues in Addiction Practices (3).** An overview of chemical dependency in the social service delivery system including policy and program approaches, client assessment, treatment techniques and prevention issues. Prerequisites: Graduate or Senior standing.

**SOW 5805C\* Counseling the Elderly (3).** Applied gerontological knowledge to counseling skills required for independent as well as frail elderly clients. Course focuses on long and short term interventions in a range of practice settings. Prerequisites: Graduate or senior standing.

**SOW 5806 Disaster Behavioral Health (3).** A combination seminar and lecture course in which students will learn about the fundamentals of mental and behavioral health issues and practices in disaster response and recovery. Prerequisite: SOW 5105 or Advanced Standing Status or Permission of instructor.

**SOW 5905\* Individual Study (1-3).** Individually selected program of advanced supervised study related to specific issues in social work and social welfare. Prerequisite: Permission of the instructor.

**SOW 5921 Self-Awareness and Self-Modification for Practice (3).** An experience-oriented course directed toward helping students become aware of their own interpersonal processes and how these may influence their skill and effectiveness as helping persons.

**SOW 5932\* Seminar in Social Work (3).** An exploration of various critical issues of concern to the social work profession. Prerequisites: Graduate or senior standing.

**SOW 6114C\* Assessment and Treatment of Addiction and Related Problems (3).** Course provides increased understanding of treatment for addictive disorders including assessment, therapeutic techniques and supportive aftercare as well as community consultation and referral skills. Prerequisite: SOW 5710.

**SOW 6125 Human Behavior and the Social Environment II-Psychopathology (3).** Study of the psychosocial aspects of client problems, including psychopathology, frequently encountered by social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5532 or advanced standing status.

**SOW 6236 Social Welfare Policy and Services II (3).** This course offers students the opportunity to gain in-depth knowledge about social welfare policy-making processes and their impact on the social service delivery system. Prerequisites: SOW 5532 and advanced standing.

**SOW 6243\* Child and Family Social Policy Issues (3).** A comprehensive overview of the range of children and family policies, programs and issues in the U.S.A. in the context of comparing residual and institutional approaches

to social service delivery, and policy implications for use of each approach.

**SOW 6245\* Social Welfare Policies and Services to the Elderly (3).** The content of the course will center around the federal/state policies affecting the quality of life of the older person. Among the areas to be considered are an overview of the situation of the aged, specific public and private social welfare policies, including the origin of policy making, and problems involved in the process of implementation of social welfare policies for the elderly.

**SOW 6281\* Legal Aspects of Social Work Practice (3).** Introduction to legal aspects of social work practice including client and agency rights, malpractice issues, legal research, and practice interaction with legal counsel, legal services, and the courts.

**SOW 6351 Clinical Intervention in Couple and Family Social Work Practice (3).** Provides students with a critical and culturally sensitive understanding and application of the major models of social work intervention with couples and families. Prerequisite: SOW 6533 and SOW 6425 Assess. And Intervention. Corequisite: SOW 6534.

**SOW 6359\* Social Work Treatment with Families of the Elderly (3).** Preventive and treatment approaches in social work practice with families of the elderly. Focus on aging family as client-system; knowledge, skills needed for a range of interventions are provided.

**SOW 6372\* Supervision, Consultation and Staff Development (3).** Key aspects of the social services supervisory situation are explored. This course emphasizes supervisory competence, issues facing supervisor and supervisee. Also explores consultation and staff development.

**SOW 6386\* Social Program Planning and Development (3).** Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs do not exist will receive special emphasis.

**SOW 6387\* Social Services Management Skills (3).** Learning units in which students practice and demonstrate, through simulation and participation, skills in major aspects of social services management.

**SOW 6425 Clinical Assessment and Intervention Planning (3).** Critical analysis of assessment models, the current issues, skills of assessment and intervention planning, including the evidence basis of assessment practice. Prerequisites: SOW 5324 and SOW 5532 or advanced standing. Corequisite: SOW 6533.

**SOW 6435 Evidence-Based Social Work Practice (3).** Examines the foundations, tools to find resources, design tailored interventions, implement, and evaluate evidence-based social work practice. Prerequisites: SOW 5532 or advanced standing.

**SOW 6436\* Empirically-Based Practice in Social Work (3).** Advanced utilization of intervention effectiveness research results and techniques in social work practice with individuals, families and groups. Prerequisites: SOW 6435 and an advanced practice course.

**SOW 6533 Field Practicum II (3).** The first part of two masters-level advanced field practicum courses and

integrative seminars that provide students with the opportunity to apply and integrate advanced clinical knowledge and skills. Prerequisites: A BSW/BSSW degree and advanced standing status or satisfactory completion of SOW 5532, 5344, 5629, 5324. Pre/Co-Reqs: SOW 6125, 6435, 6236. Corequisite: SOW 6425.

**SOW 6534 Field Practicum III (6).** The second advanced field practicum/ integrative seminar which includes licensure prep and capstone, giving students the opportunity to apply and integrate advanced clinical knowledge and skills. Prerequisites: SOW 6533, 6435, 6125, 6236. Corequisite: SOW 6351.

**SOW 6611\* Advanced Practice with Family Systems (3).** Advanced clinical skills in working with families and couples. Focus will be given to non-traditional change strategies such as family sculpting, family reenactment, family choreography and dramatization. Extensive use of videotaped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisites: SOW 6351 or permission of the instructor.

**SOW 6646\* Social Work Practice with the Elderly (3).** The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society.

**SOW 6647\* Advocacy in Social Work Practice (3).** This course covers skills and knowledge necessary for the practice of advocacy on behalf of individuals and groups, including political, legislative, and organizational perspectives.

**SOW 6649\* Social Work Practice in Long Term Care and the Elderly (3).** This course focuses on direct practice with the frail elderly and their families within the rapidly changing system of community and institutional long term care.

**SOW 6655\* Clinical Intervention in Child and Adolescent Social Work Practice (3).** This course will provide students with the opportunity to select, apply and evaluate appropriate intervention strategies in working with children and adolescents. Specific attention to socio-cultural, gender and racial differences in understanding development issues and in critically assessing the applicability of practice theories. Prerequisites: SOW 5324, SOW 5532, or advanced standing program.

**SOW 6656\* Decision-Making in Child Placement (3).** This course will stress decision-making and interventions when substitute care is considered or carried out. Termination of parental rights and the choice and timing of placements of children will be considered.

**SOW 6711\* Prevention of Addiction and Related Problems (3).** Course provides increased understanding of substance abuse prevention including history and effective approaches as well as skills to reinforce healthy lifestyles and identify early potential problems. Prerequisite: SOW 5710.

**SOW 6914\* Independent Research (1-6).** Individually selected program of supervised data collection and analysis on specific topics in social work and social welfare. Prerequisites: SOW 5404 and permission of the instructor.

**SOW 7216 Social Welfare Policy (3).** Using a systemic approach and focusing on high-risk populations, this course analyzes the social welfare policy-making process and its impact on public and private social service delivery systems. Prerequisites: Admission to Ph.D. program or permission of the instructor.

**SOW 7237 Micro-Practice Theory and Research (3).** Analysis of research priorities in the development of effective interventions in the social welfare field. Prerequisites: Admission to Ph.D. program or permission of the instructor.

**SOW 7238 Macro-Practice Theory and Research (3).** This course focuses on intervention theory research and methods at the community, organizational and societal level. Prerequisites: Admission to Ph.D. program or permission of the instructor.

**SOW 7406 History and Systems of Social Work Research (3).** Development, dissemination, and utilization of Social Work Research; the social work research tradition; types of research questions in Social Welfare; past and current contextual influences on social work research.

**SOW 7492 Theory Development and Research Methods in Social Welfare (3).** The logic of social research, role of theory in social welfare research, range and limitations of research methods, ethical issues. Students begin work on their doctoral research proposal. Prerequisites or Corequisites: STA 6166 or equivalent. Prerequisites: Admission to Ph.D. program or permission of the instructor.

**SOW 7493 Research Methods in Social Welfare II (3).** This second course in a two-semester sequence focuses primarily on design, measurement, and analysis issues in ethno-graphic field studies, surveys and group experiments for the evaluation of intervention technology in social welfare. Prerequisites: SOW 7492 and STA 6166, or equivalent.

**SOW 7916 Supervised Research (3).** Directed experience in the conduct of research in social welfare and social work under the guidance of a faculty member. Must be taken twice for a total of six credits. Prerequisite: Completion of first year.

**SOW 7932 Interdisciplinary Seminar on Social Welfare Within an Urban Milieu (3).** Academics from social work and allied disciplines and professions will discuss their theoretical interests and research activities. Prerequisite: Successful completion of first year of Doctoral program.

**SOW 7936 Dissertation Seminar in Social Welfare (3).** This course focuses on helping students with the development of the dissertation prospectus. Emphasis is placed on development of an acceptable research protocol in the students' specialization area. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493.

**SOW 7980 Ph.D. Dissertation (1-12).** This course provides dissertation guidance to doctoral candidates in the Ph.D. program in Social Welfare. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

**SYG 6932 Special Topics in Disaster Studies (3).** Case studies of major disasters used to explore topics such as impact of gender, class, ethnicity, and age on vulnerability,

response, and outcome; effects of larger political and economic systems; and relationship to social change. May be repeated with change of topic.

\*Social Work Electives

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