

# Health & Human Perfor Courses

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**HHPH 510 - Principles of Environmental Health**

Hours: 3

The purpose of the class is to introduce public health students to the field of environmental health, through a broad understanding of current health issues related to environmental factors. The course will focus on chemical, physical, and biological agents in the environment that influence human health. Students will be able to identify the causes and methodological approaches in the global health context. Topics discussed in the class will include specific diseases, populations, toxicants, risks, and occupational hazards.

**HHPH 512 - Foundations in Public Health**

Hours: 3

This course offers a broad introduction to the application of social and behavioral sciences in public health. Focus is on theoretical approaches used in facilitating behavioral, social and cultural changes needed for improving population health. Students learn the importance of applying multidisciplinary theory based perspectives to tackle real-world public health challenges.

**HHPH 514 - Global Perspective of Nutrition**

Hours: 3

This course examines malnutrition and how it occurs by analyzing several situations from around the world. Covers how nutrition can affect society and community and examines benefits of well-nourished populations. Analyzes major food and nutritional issues that affect health, survival, and human development in resource-limited settings.

**HHPH 517 - Biostatistics**

Hours: 3

This course provides students with a comprehensive introduction to the fundamental principles and applications of biostatistics in the field of public health. Through a combination of theoretical instruction, practical exercises, and data analysis projects, students will gain the necessary skills to critically evaluate research, design studies, and analyze health data..

**HHPH 518 - Thesis**

Hours: 3-6

Thesis (Same as HHPK 518).

**HHPH 520 - Infectious Disease Epidemiology**

Hours: 3

Introduction to Infectious Disease Epidemiology. The emphasis in this course is on the key concepts and methods of infectious disease epidemiology as used in public health practice and in epidemiologic research.

**HHPH 521 - Chronic Disease Epidemiology**

Hours: 3

This course will reinforce epidemiological concepts, research skills and public health concepts in the context of the study of chronic diseases and associated risk factors.

**HHPH 522 - Outbreak Investigation and Response**

Hours: 3

This course covers infectious disease outbreaks, epidemiology, outbreaks, and public health. Students will learn about modern outbreaks, historic outbreaks of significance and will explore the tools that outbreak investigators use to stop the spread of outbreaks in populations and to prevent future outbreaks. Case studies and popular media are used to apply knowledge in real-life scenarios.

**HHPH 528 - Applied Data Analysis for Epidemiology**

Hours: 3

This course is designed for students to apply their data-analytic skills to a Epidemiological Data Set and communicate their findings clearly to the population and researchers. Prerequisites: HHPH 587, HHPH 517.

**HHPH 530 - Advanced Epidemiology**

Hours: 3

This course introduces students to the conceptual foundations of epidemiologic methodology. The focus is on causal inference, what is required to estimate causal effects, and the strengths and weaknesses of different study designs in this endeavor. Examples and readings are aimed at both clinical/biologic and social/behavioral track students. Prerequisites: HHPH 587.

**HHPH 531 - Nutrition and Optimal Performance**

Hours: 3

Nutrition and Optimal Performance. Three semester hours. A study of nutrition as it relates to optimum performance and health. Nutrient need, sources, functions and interactions are reviewed according to the latest scientific findings. Principles of body conditioning are emphasized with attention to diet and lifestyle practices that promote health and decrease risks of nutrition related diseases.

**HHPH 536 - Professional Development in Public Health Seminar**

Hours: 1

This seminar is designed to meet the professional development needs of MPH students by focusing on key aspects of their academic journey and career preparation. The course covers MPH curricular requirements, the development of professional identity, best practices in public health professionalism, available resources for professional growth, and preparation for internships. Through interactive discussions, assignments, and self-assessments, students will gain the knowledge and skills necessary to navigate their academic and professional paths successfully.

**HHPH 537 - Applied Practice Experience**

Hours: 5

Applied Practice Experience is a culminating course designed to provide students with a hands-on, immersive opportunity to apply their theoretical knowledge and skills in a real-world public health setting. Students will have the opportunity to actively engage with public health professionals, contribute to meaningful projects, and address critical public health issues. Final presentations to showcase the internship and final project is required. Prerequisites: HHPH 536; Instructor approval required; must be completed in final semester.

**HHPH 544 - Health Management and Leadership**

Hours: 3

A consideration of managing health/fitness programs at the workplace and in other agencies. Includes budgeting, revenue, personnel, emergency procedures and safety, legal liability, facility management staff development, marketing record keeping, policies and procedures, and various management strategies.

**HHPH 547 - Health Psychology**

Hours: 3

An examination of the contributions of psychological research performed to the understanding, prevention, and treatment of a variety of health concerns. The biopsychosocial model of health and illness will be emphasized. Social, emotional, behavioral, biological, and spiritual factors that influence health in a global environment will be explored.

**HHPH 550 - Diversity and Health**

Hours: 3

To examine the ways in which diverse personal, socio-cultural, and institutional factors impact health, including race/ethnicity/culture, racism, socioeconomic class, gender, sexism, place, age, and spirituality, and to facilitate culturally competence health promotion/disease prevention initiatives.

**HHPH 580 - Program Evaluation for Healthcare Leaders**

Hours: 3

This course offers a practical and comprehensive introduction to program evaluation, specifically designed for students in traditional and non-traditional health settings. The course balances theory with hands-on application, focusing on the evaluation of worksite wellness programs. Through real-world examples, lessons, and exercises, students will gain the skills necessary to assess and improve interventions within organizations. Participants will learn the fundamentals of evaluation, data collection methods, and how to communicate findings effectively to organizational stakeholders.

**HHPH 585 - Program Planning & Evaluation**

Hours: 3

This course is designed to provide public health professionals with the necessary skills for the development, delivery, and evaluation of health programs to targeted populations. Courses of study, workshop planning, and special programs will be developed, implemented and evaluated for appropriate target groups. Prerequisites: HHPH 512 with a minimum grade of C.

**HHPH 587 - Epidemiology**

Hours: 3

Epidemiology is the study of the distribution and determinants of health and disease in different human populations and the application of methods to improve disease outcomes. As such, epidemiology is the basic science of public health. This course will introduce students in all fields of public health to the background, basic principles and methods of public health epidemiology investigation for both communicable and non-communicable diseases.

**HHPH 589 - Independent Study**

Hours: 1-4

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisite: Consent of department head.

**HHPH 591 - Seminar**

Hours: 1-3

Reports and discussions of topics of current interest in health and human performance.

**HHPH 595 - Critiquing and Conducting Public Health Research**

Hours: 3

This course offers a study of research methods and designs relevant to public health, focusing on proposing, conducting, reading, reporting, and critiquing research within the field. Emphasis will be placed on systematic approaches, including meta-analysis of research literature. Students will explore various research designs such as descriptive and experimental methods, and will be required to conduct an independent research project. This project will involve using meta-analysis or other appropriate research designs to systematically investigate and formally report on a public health issue. Same As: HHPK 595.

**HHPH 597 - Special Topics**

Hours: 0-4

Special Topics

**HHPH 660 - Global Health Issues**

Hours: 3

A focus on current health issues facing the world community. An epidemiological approach will be used in studying the causes and distribution of health related states and events in specified populations and the application of this information to the prevention and/or control of health problems.

**HHPH 718 - Dissertation**

Hours: 3-12

Doctoral Dissertation.