PURDUE UNIVERSITY | Department of Public Health

PUBLIC HEALTH FALL 2022 GRADUATE COURSE OFFERINGS

CODE	CRN	CRED	TITLE	INSTRUCTOR	TIME & DATE
PUBH 500	27234	3	Introduction to Public Health	Dr. Hubach	TTH 9:00-10:15 am
PUBH 525	27255	3	Statistical Methods for PH Eval	Dr. Schwab Reese	TH 2:30-5:20 pm
PUBH 543	27222	3	Physical Act and Public Health	Dr. Banda	TTH 12:00-1:15 pm
PUBH 546	25885	3	Child and Family Health Policy	Dr. Duncan	M 8:30-11:20 am
PUBH 590E	27666	1	Environmental Epidemiology	Dr. Wells	M 3:30-4:20 pm
PUBH 590G	27678	3	Healthcare Policy and Administration	Dr. Mullen	MW 10:30-10:45 am
NUTR 590	28763	3	Food Policy	Dr. Savaiano	TTH 1:30-2:45 pm
CPB 626	24603/ 24604	3	Design and Analysis of Epidemiologic Studies	Dr. Weng	MW 8:30-9:20, TH 9:30-11:20
NUR 69060	11472	3	Innovative Care/Innovations in Healthcare Delivery	Dr. Arling	W 2:30 pm-5:20 pm
HK 574	22901	3	Advanced Topics in Exercise Psychology	Dr. Amireault	TTH 3:00-4:15 pm

PUBH 500: INTRODUCTION TO PUBLIC HEALTH

NO PRE-REQUISITE

PROFESSOR: RANDY HUBACH, PHD EMAIL: RHUBACH@PURDUE.EDU

This Public Health course covers a variety of issues related to the profession of public health. The Introduction to Public Health provides the graduate student with an overview of the history, science, mission, practice and future of public health. The core public health principles and services, and the expected competencies of the professional public health practitioner, are discussed. Current issues in public health are also presented for discussion and analysis.

PUBH 525: STATISTICAL METHODS FOR PH EVALUATION

PRE-REQUISITE: GRADUATE LEVEL INTRODUCTORY STATISTICS AND REGRESSION COURSES

PROFESSOR: LAURA SCHWAB REESE, PHD EMAIL: LSCHWABR@PURDUE.EDU

This course provides an overview of the statistical methods required to evaluate the effectiveness of public health intervention or prevention programs and policies. The course introduces a range of quantitative, qualitative, and mixed methods research designs and the application and tailoring of these designs to evaluations. In addition, we will focus on categorical data analysis methods, which are often necessary for evaluation projects. You will collaborate to conduct an evaluation, develop a report with your findings, and present your findings. The course is intended for graduate students in public health; however, it may be of interest to students in social work, nursing, education, criminal justice, psychology, and other related fields. Permission of department required.

PUBH 543: PHYSICAL ACTIVITY AND PUBLIC HEALTH

NO PRE-REQUISITES

PROFESSOR: JORGE BANDA, PHD EMAIL: JABANDA@PURDUE.EDU

In this course students will be exposed to epidemiological, behavioral, and public health issues relevant to effective promotion of physical activity. The course is appropriate for students training to be practitioners or researchers from a range of disciplines including exercise science, nutrition, psychology, and public health. Major topic areas will include physical activity epidemiology, determinants of physical activity in youth and adults, and current evidence for physical activity interventions ranging from individual, behavioral strategies, to environmental or policy approaches.

PUBH 546: CHILD AND FAMILY HEALTH POLICY

PRE-REQUISITES: HDFS 601 AND 602 OR PUBH 601/STAT 503

PROFESSOR: ROB DUNCAN EMAIL: DUNCAN99@PURDUE.EDU

The main goals of the course are to provide students with foundational knowledge related to research and policies that affect the health and wellbeing of children and families. Students will read and discuss policy-relevant research on current topics associated with child and family health. Students will read and discuss examples of researchers who have made an impact on child and family policies. Students will also write three papers that integrate research and policy perspectives.

PUBH 590G: HEALTHCARE POLICY AND ADMINISTRATION

FOR RETURNING GRADUATE STUDENTS, NOT RECOMMENDED FOR FIRST-YEAR GRADUATE STUDENTS

PROFESSOR: CODY MULLEN, PHD EMAIL: CJMULLEN@PURDUE.EDU

This course will provide the opportunity to examine and analyze the financing, organization, and delivery of health care in the U.S. and how these core elements are shaped and influenced by health care policy and decision-making. Additionally, we will examine the landmark health care reform, the Patient Protection and Affordable Care Act (PPACA) of 2010 and legislation since it's passing to study the transformation of healthcare to present time.

PUBH 590E: ENVIRONMENTAL EPIDEMIOLOGY

PRE-REQUISITES: HSCI 547 FUNDAMENTALS OF EPIDEMIOLOGY

PROFESSOR: ELLEN WELLS, PHD EMAIL: WELLS54@PURDUE.EDU

The goal of this course is to introduce graduate students to the field of environmental epidemiology. The course is offered in a modified journal-club style format. Key features often encountered in environmental epidemiology will be highlighted through lectures and discussion. A peer-reviewed journal article in environmental epidemiology will be discussed at each class session. Papers will be selected to highlight the history, breadth, and methods commonly used in environmental epidemiology. Students will take turns presenting each paper and leading discussions; all students will contribute to the critical analysis of the paper.

NUTR 59000: FOOD POLICY

NO PRE-REQUISITES

PROFESSOR: DENNIS SAVAIANO, PHD EMAIL: SAVAIANO@PURDUE.EDU

We will explore the nature of contemporary United States food policy and key events throughout history that have shaped what it is today. We will investigate and discuss the roles individuals, corporations, and federal, state, and other government agencies play in creating food policy, and how these stakeholders as well as complex sociological and economic factors influence the way Americans eat. These questions will lead us to consider the future of food and food policy in the United States. Can Americans develop food policy that supports the agricultural economy AND promotes the consumption of healthy foods? Could our agricultural system support this? We will learn about and explore these questions with class discussions, debate, research, guest lectures, relevant documentary films, and thought-provoking readings that present a variety of viewpoints. You will explore current, real-life problems and have an opportunity to develop potential solutions. The course culminates in an optional trip to Washington DC to present white papers to policymakers.

CPB 62600: DESIGN AND ANALYSIS OF EPIDEMIOLOGIC STUDIES

PRE-REQUISITE: AT LEAST 1 GRADUATE-LEVEL STATISTICS COURS; IBM SPSS FOR WINDOWS WILL BE THE MAIN SOFTWARE PROGRAM

PROFESSOR: HSIN-YI WENG, PHD EMAIL: WENG9@PURDUE.EDU

This course will provide students with hands-on training on the analysis of the data derived from epidemiologic studies using contingency table analysis, logistic regression, Poisson/negative binomial regression, and survival analysis. Emphasis will be placed on the importance of integrating causal thinking in study design, data analysis, and result interpretation. Upon the completion of the course, students will be able to define the key feature for different epidemiologic study designs, analyze data using the introduced statistical methods, and interpret results by critically appraising effect size, precision, bias, confounding, and effect modification.

NUR 69060: INNOVATIVE CARE/INNOVATIONS IN HEALTHCARE DELIVERY

PREREQUISITES: PRIOR COURSEWORK IN HEALTH POLICY, HEALTH CARE SYSTEMS, PUBLIC HEALTH, OR RELATED AREAS IS DESIRABLE

PROFESSOR: GREG ARLING, PHD EMAIL: GARLING@PURDUE.EDU

This graduate seminar addresses healthcare innovation aimed at improving healthcare quality and effectiveness. It approaches innovation from different perspectives, such as policy research, organizational studies, systems and complexity theory, design thinking, and economics. It also delves into issues of evidence translation and implementation, drawing particularly from implementation science literature. The course will cover data science innovations and their application to care delivery and/or population health. Students will gain an in-depth understanding of course content through presentations and class discussion. They will also apply knowledge gained in the course by analyzing and reporting on case studies of healthcare innovations.

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HK 574: ADVANCED TOPICS IN EXERCISE PSYCHOLOGY

PRIOR COURSEWORK IN PSYCHOLOGY OR SOCIOLOGY STRONGLY RECOMMENDED

PROFESSOR: STEVE AMIREAULT EMAIL: SAMIREAU@PURDUE.EDU

This course is designed to examine the:

1) consequences of physical activity, including sport and exercise, on mental health and well-being.

2) physical activity correlates, and health behavior theories.

3) behavior change techniques and strategies for promoting physical activity.

Main topics include, stress, pain, anxiety and depression, well-being and quality of life, motives for physical activity, habit, self-regulation, social support and relationships, physical environments, behavior change techniques and strategies for enhancing participation in sport, exercise, and physical activity.

PUBLIC HEALTH SPRING 2023 GRADUATE COURSE OFFERINGS

CODE	CREDIT HOURS	TITLE	INSTRUCTOR
PUBH 501	3	Introduction to Health Equity	TBD
PUBH 590RT	3	Randomized Control Trials in PH	Dr. Gunaratna
ENTM 525	3	Medical and Veterinary Entomology	Dr. Hill
NUTR 430	2	Public Health Nutrition	TBD
PUBH 520	3	Human Sexuality and Sexual Health	TBD

PUBH 501: INTRO TO HEALTH EQUITY

NO PRE-REQUISITE

PROFESSOR: TBD EMAIL: TBD

This course introduces the participants to graduate level research in health disparities and the various theoretical and analytical skills needed to be a good health disparities researcher. It will take the course participants through the axiological, ontological and epistemological questions that we are confronted within social scientific research. This course will walk the participants through the various research paradigms and the critical debates associated with it so that they can reflect and possibly make an informed choice about their own research priorities. Permission of department required.

PUBH 525 HUMAN SEXUALITY AND SEXUAL HEALTH

NO PRE-REQUISITES

PROFESSOR: TBD, PHD EMAIL: TBD

This course is designed to provide students with an in-depth and applied understanding of the major theories and principles guiding human sexuality and sexual health research. Content

covered will enrich an understanding of sexuality and sexual health research methods, past and present research findings, and the intersection of this field and public health practice.

PUBH 590RT: RANDOMIZED CONTROL TRIALS IN PH

NO PRE-REQUISITES.

PROFESSOR: NILUPA GUNARATNA, PHD EMAIL:GUNARATNA@PURDUE.EDU

Randomized trials provide solid evidence on whether interventions and programs "work" to improve health outcomes. In this course, students will learn how to design a randomized study, handle practical issues that arise in data collection, analyze data using appropriate methods and good statistical practice, identify limitations to statistical evidence, and interpret and communicate findings in an audience-appropriate way. This is a hands-on course in which students will work with data and build skills using SAS statistical software in preparation for careers as biostatisticians, data scientists, and researchers.

ENT 525: MEDICAL AND VETERINARY ENTOMOLOGY

NO PRE-REQUISITES

PROFESSOR: CATHERINE HILL, PHD EMAIL: HILLCA@PURDUE.EDU

Introduction to the biology and control of arthropods of medical and veterinary importance, and coverage of the natural history and abatement of selected arthropod-related diseases, including arboviral encephalitis, filariasis, leishmaniasis, Lyme disease, malaria, plague, spotted fever, trypanosomiasis, and myasis.

NUTR 430: PUBLIC HEALTH NUTRITION

PREREQUISITE: NUTR 31500

PROFESSOR: TBD, PHD EMAIL: ---

To enable students to articulate, explain the purpose of, and apply the three core functions of public health including: assessment of the nutritional needs of the community, assurance and provision of programs that service those needs, and policy development to promote health. Students will develop critical thinking skills to allow evaluation of the scientific evidence supporting public health programs and policy. The class will expose students to a variety of professional careers in public health in community, clinical, and educational/academic settings.