HEALTH POLICY RESEARCH (HPR)

HPR 5010 Economics of Health Care Delivery
This course examines how medical care is produced and financed in private and public sectors, economic models of consumer and producer behavior, applications of economic theory to health care. Prerequisite: Course only open to Masters of Science in Heath Policy Research students unless by special request.
Spring
1 Course Unit

HPR 5030 Qualitative Methods in Health Research
The purpose of this course is to expose students to a variety of qualitative approaches/methodologies that may be used in health services/policy research. In didactics we will discuss the pros and cons of a range of qualitative Methods, how the method is actually implemented (with multiple experts presenting approaches), and pair the presentation with a broader discussion in which students compare and contrast health oriented articles in which the method was used. Students will have the opportunity to apply the theoretical approaches to their own research interests with direct input from the faculty and their peers. Prerequisite: Permission needed from Instructor.
Summer Term
Also Offered As: PUBH 5380
1 Course Unit

HPR 5500 Clinical Economics and Clinical Decision Making
This course focuses on the application of decision analysis and economic analysis to clinical and policy research. The course begins with material about the selection, use, and analysis of diagnostic tests using two by two tables, likelihood ratios, and ROC curves. The course continues with the introduction of more general tools for decision analysis, including decision trees and other mathematical models. Special emphasis is placed on the assessment and use of utilities in these models. A major focus of the course is the application of economic principles to the evaluation of health outcomes. During seminars, students will carry out practical exercises that include problem solving, critically analyzing published articles, and learning to use computer software that facilitates decision and economic analyses. Prerequisite: Permission of instructor
Spring
Also Offered As: EPID 5500
1 Course Unit

HPR 5800 Outcomes Research
This course is divided into two main parts. The first part addresses issues related to the measurement of quality in health care. Included is a review of the classical structure-process-outcome quality paradigm. The paradigm's strengths and limitations are addressed. This part especially focuses on outcome measure of quality and examines the validity of alternative measures. The second part deals with observational, or quasi-experimental, research studies. It addresses the advantages and limitations of alternative designs, and covers the role of clinical risk adjustment in observational studies of medical interventions. It focuses on the problem of selection bias, and reviews recent methods for dealing with this bias, such as instrumental variables. Prerequisite: Introductory course in statistics including regression methods. Permission of instructor if prerequisite is not met.
Fall
Also Offered As: EPID 5800
1 Course Unit

HPR 5880 Advanced Leadership Skills in Community Health
Grounded in a social justice perspective, this course aims to provide the student with a foundational overview of the field of community health and leadership skills in public health advocacy. The course encourages critical thinking about health outcomes framed by the broad context of the political and social environment. This course analyzes the range of roles and functions carried out by leaders in healthcare advocacy for marginalized communities; integrates knowledge of health policy and the key influence of government and financing on health outcomes; explores community-based participatory research and interventions as tools for change; and discusses ways to develop respectful partnerships with community organizations. An assets-based approach that draws upon the strengths of communities and their leaders provides a foundation for community-engagement skill building. The course emphasizes the development of skills and techniques to lead effective, collaborative, health-focused interventions for disenfranchised groups, including residents of urban neighborhoods. Prerequisite: Undergraduates with permission of the instructor
Spring
Also Offered As: NURS 5870, PUBH 5880
1 Course Unit

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HPR 5940 Critical Multimodal Qualitative Research Across the Professions
Created in collaboration with Schools of Design and Law, this course is designed to introduce professional school students to critical, multimodal and experimental ethnographic qualitative research methods. The coverage of the course includes both theoretical and applied components. The course is divided into five modules. The first module explores the theory of critical ethnographic qualitative research and the ethical issues that arise when undertaking collaborative research around the "everyday culture" of communities and institutions with which practitioners in the students' chosen areas of study typically interact. The second module allows students to analyze qualitative research in professional fields of study and engage in dialogue with Penn faculty whose qualitative research addresses significant issues of importance to practitioners in law, business, medicine and planning. This module will also begin a discussion of the tasks of formulating critical qualitative research projects and analyzing data. The third module is devoted to qualitative data collection methods (participant observation, oral histories and in-depth interviews) and the modes and tools used in collecting qualitative data and reporting results (traditional or text-based, multimodal, and experimental). The final module considers, in greater depth, the role of aesthetics, advocacy and activism in utilizing multimodal approaches for sharing research findings with audiences consisting of academics, collaborators, fellow professionals, and the general population.
Fall or Spring
1 Course Unit

HPR 6000 Health Services Research and Innovation Science
This course will provide students with an introduction to health services and health policy research. First, faculty representing various departments and and schools at the University of Pennsylvania will introduce students to a number of "hot topics," including health disparities, medical decision making, neighborhoods and health, quality of care, access to care, behavioral incentives, and cost effectiveness research. Second, the course will offer an introduction to various career paths in the research and policy domains. Third, the course will provide a brief overview of practical issues such as grant opportunities, data options, publishing, and dissemination. Prerequisite: This course is only open to Masters of Science in Health Policy Research students.
Summer Term
1 Course Unit

HPR 6030 Health Services and Policy Research Methods I: Primary Data Design and Collection
This course will introduce students to commonly used primary data collection methods and provide multiple examples of how they have been used in health services research. Through the course students will define a primary data collection research project and develop the methods necessary to conduct the project. To get the full benefit of this course, students should use this course to develop the methods they plan to employ in their primary data collection project. Prerequisite: Permission needed from Instructor.
Fall
1 Course Unit

HPR 6040 Introduction to Statistics for Health Policy
This is the first semester of a two-semester sequence. It is an introductory statistics course covering descriptive statistics, probability, random variables, estimation, hypothesis testing, and confidence intervals for normally distributed and binary data. The second semester stresses regression models. Permission needed from instructor to enroll. Summer Term
1 Course Unit

HPR 6060 Fundamentals of Health Policy
While academic researchers often think of health policy in terms of research evidence and outcomes, politics and political processes also play important roles. The purpose of this course is to provide those pursuing careers in health services research and health policy with an understanding of the political context from which U.S. health policy emerges. This understanding is important for researchers who hope to ask and answer questions relevant to health policy and position their findings for policy translation. This understanding is important as well to policy leaders seeking to use evidence to create change. The class provides an overview of the U.S. health care system and then moves on to more comprehensive understanding of politics and government, including the economics of the public sector, the nature of persuasion, and techniques and formats for communication. The course emphasizes reading, discussion and applied policy analysis skills in both written and oral forms. Concepts will be reinforced with case studies, written assignments and a final policy simulation exercise where students will be placed in the position of political advisors and policy researchers. Prerequisite: Permission needed from Instructor.
Fall
1 Course Unit

HPR 6070 Health Services and Policy Research Methods II: Causal Inference Using Secondary Data
Empirical research for health care policy frequently involves the analysis of observational data--information that is not primarily collected for research purposes. With the rapid increase in U.S. health information technology capacity, future opportunities for research using these "secondary data" appear promising. The objective of this course is to teach the skills necessary to conduct quality health policy research using secondary data. These skills include formulating research aims and applying appropriate study designs for achieving these aims. The course will also include a survey of the content and structure of several commonly used administrative and public databases available to researchers and workshops to develop the skills to access and manipulate these valuable resources. Prerequisite: Permission needed from Instructor.
Spring
1 Course Unit

HPR 6080 Applied Regression Analysis for Health Policy Research
This course deals with the work-horse of quantitative research in health policy research—the single outcome, multiple predictor regression model. Students will learn how to 1) select an appropriate regression model for a given set of research questions/hypotheses, 2) assess how adequately a given model fits a particular set of observed data, and 3) how to correctly interpret the results from the model fitting procedure. After a brief review of fundamental statistical concepts, we will cover analysis of variance, ordinary least squares, and regression models for categorical outcomes, time to event data, longitudinal and clustered data. We will also introduce the concepts of mediation, interaction, confounding and causal inference. Prerequisite: Permission needed from Instructor.
Fall
1 Course Unit
HPR 6110 Implementation Science in Health and Health Care
This course presents a survey of the field of implementation science in health. The structure of the course will include two parts. In the first part, we will introduce the field of implementation science, with an emphasis on theory, design and measurement. In the second part, we will focus on applied implementation science which will include examples of research programs in implementation science as well as applying insights of implementation science to practical implementation. An emphasis on qualitative and mixed methods approaches is included. Prerequisite: permission needed from Instructor.
Fall
0.5-1 Course Unit

HPR 6120 Advanced Topics in Implementation Science in Health
This seminar course offers an opportunity for students to advance their understanding of the thorniest methodological challenges in implementation science. Broadly, topics include study design, study execution, and tensions in the field. The intention will be for attendees to directly apply their learnings to their ongoing or proposed implementation research. This half credit course is intended for those who have already been exposed to the foundational content of implementation science. This can be achieved via HPR 611, the Penn Implementation Science Institute, or other training opportunities such as the NIH TIDIRH/TIDIRC or mentored K awards. Instructor permission is required for enrollment. Additional prerequisites: the Penn Implementation Science Institute, or other training opportunities such as the NIH TIDIRH/TIDIRC or mentored K awards.
Summer Term
Prerequisite: HPR 6110
1 Course Unit

HPR 6250 Pragmatic Clinical Trials in Healthcare
This seminar course offers an opportunity for students to understand what a pragmatic randomized controlled trial (RCT) is, how it differs from explanatory RCTs, why it is relevant, and key methodological and analytic issues that arise in the conduct of pragmatic trials. The student will also learn about ethical issues in pragmatic trials, nestling relevant studies within a trial, and trial reporting requirements. The intention will be for attendees to be able to directly apply their learnings to their ongoing or future clinical research.
0.5 Course Units

HPR 6370 Advocacy & Public Health
This course is designed to provide the foundational context and practical skills necessary to effectively advocate for evidence-based policy change in furtherance of public health objectives. the class will be interactive in nature and will require participation in public health advocacy exercises in order to hone advocacy skills. there will also be a focus on persuasive communication, both oral and written. we will explore the entire advocacy process from the identification of a problem and evaluation of possible policy solutions to utilizing the full range of advocacy tools to promote policy change.
Spring
Also Offered As: NURS 5650, PUBH 6370
Prerequisite: PUBH 5050 OR PUBH 5070
1 Course Unit

HPR 6600 Applied Predictive Modeling for Health Services Research
The course offers an introduction to the principles and applications of predictive modeling. It is geared toward health services researchers with an emphasis on clinical and policy scenarios and the use of electronic health record and administrative claims data. The primary goals of this course are to help each student understand (1) the fundamental concepts of predictive modeling and what distinguishes it from traditional causal inference approaches in statistics, (2) the different evaluation metrics for model performance and their appropriate use and (3) the role of domain knowledge in developing a statistical plan for model development with the end-user in mind. Students will be building their own predictive models by the end of the course and may elect to use R, STATA or Python for coding exercises. No prior programming experience is required. A background in basic statistical principles would be helpful. Prerequisite: Permission needed from Instructor.
Summer Term
1 Course Unit

HPR 6700 Health Care Strategic Leadership and Business Acumen
The weeklong intensive course aims at developing essential business acumen and leadership skills required to thrive in a constantly changing health care ecosystem. Taught by invited faculty who have experience working with health care leaders, this course will focus on actionable knowledge in financial acumen, strategic decision making, innovation and building high-performance teams. Through interactive mixed-mode delivery methods, faculty will share tools and frameworks, always with a focus on how to apply them, both personally and within an organizational context. Prerequisite: Permission needed from Instructor.
Summer Term
1 Course Unit

HPR 7140 Grant Writing/Review
This course will assist students in the design of an NIH grant (F-32, K, R21 orR01) for submission by enhancing their appreciation of the specifics of the grant writing process and in understanding the grant review process. This course is designed to provide background, training, and practice with the writing and submitting of NIH style grants. As a minimum all students who enroll will be expected to write and submit a reasonable draft of a full NIH style grant proposal by the end of the term. During the process, the portions of each proposal will be reviewed as a group by the other students in the course. In response to each review, students are expected to revise their grant sections. Prerequisite: If course requirement not met, permission of instructor required.
Summer Term
Also Offered As: EPID 7140
Prerequisite: EPID 5100 AND EPID 5260 AND EPID 5600 AND EPID 5700
0.5 Course Units

HPR 7990 Independent Study
This course is designed to provide the student with an opportunity to gain or enhance knowledge and to explore an area of interest related to health policy research under the guidance of a faculty member. Prerequisite: Permission of Program Director and Faculty Member.
Fall, Spring, and Summer Terms
1 Course Unit

HPR 9900 Health Policy Research Thesis I
Each student completes a mentored research project that includes a thesis proposal and a thesis committee and results in a publishable scholarly product. Prerequisite: Course only open to Masters of Science in Health Policy Research students.
Fall or Spring
1 Course Unit
HPR 9901 Health Policy Research Thesis II
Each student completes a mentored research project that includes a thesis proposal and a thesis committee and results in a publishable scholarly product. Prerequisite: Course only open to Masters of Science in Health Policy Research students.
Fall or Spring
1 Course Unit