

HEALTH SERVICES AND OUTCOMES RESEARCH (HSR)

HSR 425-0 Introduction to Quantitative Methods in Health Services & Outcomes Research (1 Unit)

This course introduces descriptive and analytic epidemiology and how to apply these methods to the study of health services and outcomes research. Key epidemiological concepts such as association, bias and confounding will be covered, as well as the main epidemiologic study designs. Topics include overview of research design, basic measurement of health services data, defining and measuring appropriate health outcomes, constructing research questions, conducting univariate analyses, and interpreting results.

HSR 433-0 Health Economics and Healthcare Financing (1 Unit)

This course examines selected topics in health economics that have major implications for healthcare delivery, healthcare financing and clinical and public health research. Essential economic theories and methods for exploring each topic will be discussed along with examples drawn from the existing research literature on the application of these theories and methods.

HSR 456-0 Applied Qualitative Methods and Analysis for Health Researchers (1 Unit)

This course focuses on the qualitative research methods and analytic approaches that are often used in health services research, including in-depth and semi-structured interviews, focus groups, and participant observation. This course prepares the researcher to choose appropriate applications of qualitative methods, to conduct a variety of qualitative studies, and to interpret the meaning of events from the participant's point of view, using multiple methods.

HSR 460-0 Applied Ethical Issues in Health Services Research (0.5 Unit)

This seminar provides an overview of core ethical concepts relevant to scientists conducting health services research. Ethical research topics include: working with large data sets, obtaining Institutional Review Board approval, quality improvement vs. research projects, vulnerable populations and community-based participatory research, informed consent, conflicts of interest, patient safety, using electronic health records as a data source and research misconduct and authorship dilemmas.

HSR 461-0 Topics in Health Services Research: Methods & Measurement (0.5 Unit)

This course provides an overview of methods for conducting health services and outcomes research. It is intended to complement students' training in epidemiology and biostatistics, and help prepare students to conduct independent research. Topics include: identifying appropriate conceptual models, conducting systematic literature reviews, basic survey design and implementation, approaches to using mixed methods, and navigating popular data sets.

HSR 462-0 Topics in Health Services Research: Grant Writing (0.5 Unit)

This course will provide students with an overview of the grant writing process and practical strategies for writing successful grant proposals. The course includes online lectures, faculty-led writing workshops, guest lectures and discussions, and a mock study section in which students critically evaluate grant proposals.

HSR 465-0 Intermediate Quantitative Methods in Health Services & Outcomes Research (1 Unit)

This course provides the student with an opportunity to learn and practice more advanced epidemiologic methods in the context of health services and outcomes research. Topics include: epidemiologic research

strategies and how to apply these to various research questions, review of univariate analysis (e.g., odds ratios, chi-sq tests), issues in effect estimation (precision, selection bias, misclassification bias), methods for dealing with covariates (stratified analysis, effective modification, confounding), introduction to multivariate analysis, and interpreting research findings to guide decision-making. Includes practical computer-lab sessions in Stata.

HSR 470-0 Federal Policy Making and Health Care Reform (1 Unit)

This course has three major objectives: (1) to introduce students to the policy making process and the roles of various policy actors, (2) to improve students' knowledge of current health policy issues, and (3) to prepare students to participate in the policy process.

HSR 498-0 Independent Study (0.5 Unit)

With guidance from a faculty member, the student develops a course of study that advances his or her knowledge in a particular area related to health services or outcomes research. The Student must identify a faculty member who is willing to sponsor and oversee the independent study course.

HSR 499-0 Independent Study (1 Unit)

With guidance from a faculty member, the student develops a course of study that advances his or her knowledge in a particular area related to health services or outcomes research. The Student must identify a faculty member who is willing to sponsor and oversee the independent study course.

HSR 500-0 Capstone Project (1 Unit)

The Capstone Project serves as a culminating experience and summative product of students' experiences in the Master's program. By completing the Capstone Project, students will: (1) develop, conduct, and complete an original and independent health services and/or outcomes research study, and (2) report the results in a completed manuscript that is ready to submit for publication.