Health Services and Outcomes Research (HSR)

HSR 401-0 Introduction to Health Measurement Science (1 Unit)
The objective of this course is to introduce students to the principles and practice of reliable and valid health measurement. The central focus will be on the methodology of instrument development of a patient-reported outcomes instrument (PRO) and related health assessment tools.

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 Ethical Issues in Health Services Research (0.5 Unit)
This course provides an overview of ethical principles for the responsible conduct of research and ethical issues related to conducting health services research, such as electronic records research, working with large data sets, vulnerable populations, and community-based participatory research.

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 463-0 Topics in HSR: Healthcare Quality and Patient Safety (0.5 Unit)
The course will provide an overview of topics related to healthcare quality and patient safety that are commonly encountered in health services and outcomes research. The course consists of online assignments and discussions on various topics, including organizational culture, quality measurement, risk analysis, process improvement, and health information technology.

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-square 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 480-0 Advanced Qualitative Methods & Analysis for Health Researchers (1 Unit)
Students engaged in a specific qualitative research project will receive tailored guidance on conceptualization, data collection, analysis, and report writing. Students should take HSR 456 and receive permission from the instructor prior to registering.

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.

HSR 501-0 HSR Capstone II (0.5 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.