HEALTHCARE QUALITY AND SAFETY (HQS)

HQS 6010 Healthcare Quality: Landscape, Standards, and Measurement
This week-long hybrid course (in person + virtual online) provides a national perspective on the history and evolution of the US healthcare quality movement and the six components for high quality healthcare: safe, timely, effective, equitable, efficient, and patient-centered. Using a mix of local and national leaders in the field, the complexities of quality and the scientific basis for understanding the measurement of quality will be explored, including exposure to quality measures from a variety of organizations and measure comparison sites and the merging of quality outcomes with evolving reimbursement paradigms and models. The association between quality and safety and healthcare economics, regulation, accreditation, information technology, and population health will also be covered.
Spring
1 Course Unit

HQS 6020 Learning Health System Seminar Series
This seminar series will provide students with knowledge and skills in the learning healthcare system. Through lecture and interactive discussions with leaders across the University of Pennsylvania, students will expand their network of resources and collaborators for the learning health care system where they work.
Fall
0.5 Course Units

HQS 6030 Evaluating Quality Improvement and Patient Safety Programs
This course provides an overview of quantitative and qualitative methods for evaluating quality improvement and patient safety (QI/PS) efforts in healthcare. Through the use of assigned readings, discussion, and assignments, students will develop skills to critique evaluations of existing QI/PS projects and design a robust evaluation of a healthcare improvement initiative. Topics include the principles of good measurement, development of performance measures, intermediate and advanced concepts in statistical process control, and the research methods used in the evaluation of QI/PS interventions.
Fall
1 Course Unit

HQS 6060 Applied Clinical Informatics in Quality Improvement
This four-day intensive graduate institute applies core clinical informatics concepts in the context of quality improvement and patient safety initiatives. Content covered addresses foundational theories, frameworks, and policies of clinical informatics relevant to quality improvement and patient safety as well as practical application of informatics tools relevant to quality improvement efforts and local governance structure. Learners will be exposed to a variety of informatics leaders from across both the University of Pennsylvania Health System and Children's Hospital of Philadelphia. A hybrid structure of two full, in-person days with two half, virtual days with optional offers hours is intended to allow flexibility for learners while maximizing beneficial interactions between learner, instructors, and building the UPHS/CHOP informatics community
Spring
Also Offered As: BMIN 6060
0.5 Course Units

HQS 6070 Safety and Quality Leadership in Healthcare Systems
This six week hybrid course will help develop core skills for emerging leaders of safety and quality in healthcare systems. The course will include a combination of self-assessments, encounters with exemplary leaders, group exercises, individual activities and readings that will provide the participants with a range of experiences designed to further student's own leadership journey.
Summer Term
1 Course Unit

HQS 6080 Using Quality Improvement to Achieve Health Equity
This course provides learners with the tools to address health and health care inequities using quality improvement methods. Learners will be able to explore the upstream causes of health and healthcare inequities including historical and current day practices routed in racism, sexism, classism, and queer-and-transphobia, among other practices of oppression. This course explores different methods for the purposes of using them in conjunction with quality improvement (QI) frameworks to ensure health equity as a positive outcome of QI efforts. Common QI frameworks and outcome measures will be reviewed with a focus on how to use them in health equity QI work. In addition, the course includes topics of leadership and change management in order to support successful collaborations resulting in health equity. Learners will apply these themes in a final project, engaging an example of an inequitable processes or care to design a QI project with the goal of improving health equity.
Spring
1 Course Unit

HQS 6120 Principles and Practice of Healthcare Quality Improvement
Healthcare delivery is complex and constantly changing. A primary mission of leading healthcare organizations is to advance the quality of patient care by striving to deliver care that is safe, effective, efficient, timely, cost effective, and patient-centered. The goal of this inter professional course is to provide students with a broad overview of the principles and tools of quality improvement and patient safety in health care while also guiding them through the steps of developing a quality improvement project. It will provide a foundation for students or practicing clinicians who are interested in quality improvement and patient safety research, administration, or clinical applications. As part of this course, students will design and plan for a real quality improvement project in their arena of interest within healthcare using the methods and tools taught in the course.
Fall
Also Offered As: NURS 6120
1 Course Unit

HQS 6400 Coaching in Quality Improvement Work
The purpose of this course is to provide participants with the skills and tools to successfully guide learners in experiential quality improvement (QI) work in healthcare while developing a network of educators with similar roles. Students will be placed into groups based upon their level of experience and confidence in teaching and advising learners in this field. Both groups will discuss topics such as QI project selection, using QI frameworks to structure teaching sessions, key organizational and team factors, providing feedback, common teacher and learner pitfalls in QI, and many others. This will be a blended course with three in-person workshops and monthly asynchronous online educational components with assignments.
Fall
0.5 Course Units
HQS 6500 Systems Thinking in Patient Safety
This blended online/in-classroom graduate level course integrates principles of systems thinking with foundational concepts in patient safety. Utilizing complexity theories, students assess healthcare practices and identify factors that contribute to medical errors and impact patient safety. Using a clinical microsystem framework, learners assess a potential patient safety issue and create preventive systems. Lessons learned from the science of safety are utilized in developing strategies to enhance safe system redesign. Core competencies for all healthcare professionals are emphasized, content is applicable for all healthcare providers including, but not limited to, nurses, pharmacists, physicians, social workers and healthcare administrators, and may be taken as an elective by non-majors.
Spring
Also Offered As: NURS 6500
1 Course Unit

HQS 9900 Quality Improvement Capstone I
The purpose of the quality improvement capstone is to provide a culminating experience in the program that requires the integration and application of knowledge attained in pre- and co-requisite coursework. The Capstone will build upon prior coursework that provided a broad overview of the principles and tools of quality improvement and patient safety in healthcare with a focus on implementation and sustainment of change. Students will apply this knowledge through completion of a mentored quality improvement project in a healthcare organization. In collaboration with faculty and health organization advisors, students will identify a quality improvement opportunity and use improvement methodology to describe the extent of the problem, analyze the current system, design tests of change (countermeasures), implement at least two plan-do-study-act cycles, and measure results. Students will also reflect on lessons learned and process of change. This is a hybrid course with virtual and in person components.
Spring
Also Offered As: NURS 6950
1 Course Unit

HQS 9910 Quality Improvement Capstone II
The purpose of the quality improvement capstone II course is to provide a culminating experience in the master's program that requires the integration and application of knowledge attained in prior coursework. Students will build on the skills obtained throughout the master's program and specifically in Quality Improvement in Healthcare Capstone I (HQS990/NURS695) while continuing to lead and experience cycles of improvement work while measuring their results. Students will be required to write a final report and deliver an oral presentation for this course.
Fall, Spring, and Summer Terms
Also Offered As: NURS 6960
1 Course Unit