HEALTH CARE (HC)

HC 660 Interpersonal Dynamics in Health Care (3 credits)
Over the past few decades, a focus on communication, the patient experience and the psychological engagement of employees has moved to the forefront of modern healthcare. Interpersonal Dynamics in Health Care is an interdisciplinary course highlighting relevant concepts not often covered in clinical and administrative training. The curriculum illuminates the "micro" issues, such as the underpinnings of provider-patient relationships, as well as the "macro" issues such as organizational dynamics in medical institutions. There will be an emphasis on humanistic practitioner-patient counseling skills as well as how to improve the quality of collegial relationships. The greater context of professionalism in providing compassionate care for individuals and co-workers will be stressed. Precepts from the fields of communication studies, psychology and the medical humanities will better equip healthcare professionals to manage their ongoing challenges.

HC 661 Project Management for Healthcare (3 credits)
Project management has become an important professional skill for business leaders in all disciplines. Driven by global competition and innovative technologies, the use of project management is expected wherever organizations need to achieve objectives within scope, cost, and time constraints. Successful project managers skillfully manage their resources, schedules, risks, and scope to produce a desired outcome. This course guides students through fundamental project management concepts and behavioral skills needed to successfully propose, launch, lead, and measure benefits from projects across organizations in domestic and multinational settings.

HC 662 Healthcare Innovations (3 credits)
Innovation and the promise of innovation in healthcare are ubiquitous and intoxicating. But innovation often fails. This course will explore the fundamentals and application of innovation in healthcare to the complex problems facing today's healthcare organizations. Today's healthcare leaders will have to be ahead in applying innovation across their organizations- from care delivery and the patient experience, data integration, artificial intelligence, and information technologies to the rapid acceleration of new products and treatments from biotech, medical device, and pharmaceuticals industry. Students will learn and apply innovation theory and innovation diffusion and adoption patterns in case studies and through a self-selected healthcare innovation project. The course will also explore why innovation fails, the significant barriers to innovation, applied bias in innovation, and how to plan for and develop a culture of innovation that buffers these challenges.

HC 664 Healthcare Analytics (3 credits)
This course introduces the fundamental data analytics concepts and techniques that have been employed widely in organizations to support data-based decision-making. Built upon students' knowledge of managerial statistics, this course extends their skill sets into business intelligence, data warehousing, machine learning, and artificial intelligence. Case studies about using descriptive, predictive, and prescriptive techniques in healthcare analytics applications will be presented and discussed, demonstrating the role of healthcare analytics in improving patient care, quality of service, and cost reduction. This course will also provide students with opportunities to learn and practice state-of-the-art analytics and visualization methods and tools.