MASTER OF SCIENCE IN

HEALTHCARE SYSTEMS ENGINEERING

Earn your MS degree online in two years



COURSE OF STUDY

HSC 6636 Issues in the Health Professions FIN 6551 Systems Engineering EIN 6357 Advanced Engineering Economics EIN 5117 Management Information Systems ESI 5359 Risk Assessment & Management ESI 5219 **Engineering Statistics** ESI 5531 Discrete Systems Simulation ESI 6nnn IE Analytics in Healthcare ESI 6224 Quality Management EIN 5140 Project Engineering (Capstone)

QUICK FACTS

- · Fully online degree
- 2 year completion
- 7½ week classes
- · Admission three times per year
 - Fall June 15
 - Spring November 15
 - Summer March 15
- Requires 30 credit hours (10 courses)
- No GRE requirement
- Wide range of professional and research opportunities



Our healthcare systems are changing - globally, nationally, regionally, and locally - and much of that change is happening without the support of systems engineers who understand the issues associated with massive systemic change involving a diversity of people and organizations. Many healthcare professionals have significant expertise in their respective healthcare occupations, but often lack expertise in continuously improving the design of systems, processes, or products. A May 2014 study¹ recommended that "the United States build a healthcare workforce that is equipped with essential systems engineering competencies that will enable system redesign."

The deadline to apply for Fall 2016 is June 15

PROGRAM OVERVIEW

This web-based online masters program in Healthcare Systems Engineering is designed to attract students with a variety of educational backgrounds and keen interest in working in the healthcare field. It provides existing healthcare practitioners, and individuals with an engineering background who are interested in joining the rapidly expanding field of healthcare systems, with models and tools such as quantitative analysis, systems modeling, and computer simulation for effective decision-making in healthcare organizations and systems.

Translating a specific design into an organizational or physical reality in the most effective manner, and with highest possible quality, is the focus of the Industrial Engineering and Management Systems field. This program is tailored to meet the needs of a broad range of working professionals interested in leading healthcare systems engineering and management initiatives. It is the first program of its kind, with no other university currently offering a similar program fully online.

FOR MORE INFORMATION:

CONTACT A SUCCESS COACH

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¹ Better Health Care And Lower Costs: Accelerating Improvement Through Systems Engineering, May 2014, President's Council of Advisors on Science and Technology (PCAST)