

MASTER OF SCIENCE IN HEALTHCARE SYSTEMS ENGINEERING

Earn your MS degree online in two years

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COURSE OF STUDY

HSC 6636	Issues in the Health Professions
EIN 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**

FOR MORE INFORMATION:

CONTACT A SUCCESS COACH

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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.

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