

Improving Healthcare Fall 2021

Health Care Operations Improvement, Wednesdays, 6:40 PM ISE 508:
(3 units) 31508D online as 31708D and as Price School PPD 508



Healthcare is changing dramatically and quickly. The pandemic added to the industry's importance and demand. The world's largest industry and largest employer seeks people to solve its unique problems. This course offers a student the opportunity to learn the latest tools from experts, developers and researchers in the field. Systems engineering, data analysis and new technology are changing how hospitals and clinics care for people.

Topics such as quality improvement, data analysis, scheduling, Lean thinking, staffing, and optimization are covered. With models and simulation, a better healthcare systems design can be created. AI, remote sensing and biotech are rapidly changing the medical world. Implementing information systems, telemedicine and new medical technology are addressed.

Course Description:

The highly rated course covers topics in systems design to reduce wait time, lower costs, improving quality and implement changes. Students will become familiar with methods and resources for identifying problems and implementing change in a healthcare setting by seeing how it helps people in need.

In addition to lectures, we will have frequent guest speakers providing insights. Past speakers have included hospital CEO's, IT providers, software developers, systems engineers, technology developers, physicians and government representatives. Organizations such as Kaiser, Cedars Sinai Hospital, the Veteran's Administration, Keck Hospitals and Epic software will speak at the class. Optional interning opportunities at local hospitals will be provided students and many employment opportunities have resulted directly from this course. Online on DEN.

Pre-requisites:

This course is open to all students with graduate or upper division undergraduate standing. Prior experience in health care is not required – but interest is.



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