

IOE 813

Providing Better Health Care through Systems Engineering: Seminars and Discussions



Instructors: **Amy M. Cohn, PhD**, Arthur F. Thurnau Professor, IOE Department
Associate Director, Center for Healthcare Engineering and Patient Safety
James P. Bagian, MD, Director, Center for Healthcare Engineering and Patient Safety

Time/ Mondays, 4:30-6:30PM, Fall 2016 / 1123 LBME

Location:

Credits: 2 credits

Prerequisite: Graduate standing or permission of instructors; enrollment limited to 20 students

We will all require health care services at some point in our lifetime, and we all live in an economy impacted by astronomically-rising health care costs.

In this course, which is focused around weekly seminars given by leading scholars in this important and emerging area, we will provide a high-level overview to introduce students to a wide range of ways in which systems engineering can greatly improve the delivery of health care—improving outcomes, decreasing costs, reducing the risk of error, and developing new innovations.



Our goals for the course are to:

- Expose students to the richness of health care as an arena for applying engineering tools and having significant impact
- Help students learn to communicate with health care providers and better understand the cultural and operational environment of the health care system
- Identify potential future research opportunities and collaborations for students interested in continuing to learn more about health care engineering

If you would like more information about this course, past seminar series can be viewed here:

<http://cheps.engin.umich.edu/seminar-series/> or please contact Amy Cohn

(amycohn@umich.edu), Jim Bagian (jbagian@umich.edu) or Gene Kim (genekim@umich.edu).