

MILI 6562 Information Technology in Health Care

Executive Summary

Course: MILI 6562 Information Technology in Health Care
Credits: 2 credits
Prerequisites: MBA Student

Description

This course is designed for students interested in the medical industry and harnessing the resources of the emerging health information age. The course will focus on 1) the theory and conceptual base for healthcare information technology (IT), 2) applications of current and developing health IT applications, and 3) approaches to evaluating the effectiveness of health IT systems.

Objectives

By the completion of this course, students will have acquired a broad perspective on the use of information systems for healthcare management decisions. Specifically, the course seeks to provide students with the skills to complete the following tasks:

- Describe the basic hardware of information technology.
- Understand the basic data structures present in health care.
- Identify software applications used to manage health care.
- Describe the principal clients of health information systems.
- Evaluate an information system using basic systems theory and evaluation skills.
- Communicate to a system analyst ad-hoc programming instructions to extract knowledge of strategic value.
- Understand the scope of health information technology legal and ethical issues as potential market barriers to avoid or use for strategic market opening value.

Learning Outcomes

The outcome of this course will be to provide a future manager with an awareness of health IT applications that mark the movement and engagement of patients through the health care supply chain. Students completing the course will also understand the demand by medical industry managers of health IT and be able to use this knowledge to value the decision to acquire, adapt or utilize such technologies. A review of actual Health IT applications from firms in the field will acquaint the student with an awareness of the current innovations in the market and the opportunity to question industry leaders about the future innovations in this market space, including the marriage of human genomic data with clinical case history as well as the advancement of real time quality of care metrics.