

HEALTH INFORMATICS: AN MIS PERSPECTIVE
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The objective of this textbook is to introduce health information system (HIS) concepts and best practices to business students. It covers history and evolution of HIS, acquisition and implementation of HIS, confidentiality, privacy and security, and achieving IT value using data analytics.

As cardiologist Eric Topol commented “*There’s no group more resistant to change than medicine.*” Throughout the book the students will gain an understanding that HIS implementation and support is a techno-social problem that involves different stakeholders with several conflicting goals.

Target Audience

Graduate or upper division undergraduate students in Management Information Systems, Computer Information Systems, Health Management/Business students, Special Topic Course in MBA

Key challenges of the course for instructors and students in business/management programs

Information systems use in healthcare settings is a challenging topic to grasp. It is imperative to understand current health care policies and health care systems (such as method of reimbursement) have on the selection and implementation of technology. Additionally, healthcare information systems deal with many forms of technology and types of data.

MIS concepts can certainly be applied to healthcare. But there are keen differences that require additional knowledge and analysis. Health information systems do not follow the classical business/customer relationship; it is not a classic market system. Healthcare has several stakeholders, with competing goals and incentive structures. Additionally, while profitability is important in healthcare, so is measurement of patient outcomes. The alignment of profit and outcomes are often at odds.

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Part 1: History and Evolution of Health Information Systems

Chapter 1: Healthcare in the United States - Structure and Processes in Health Care Organization and Health Care Policy

Chapter 2: Healthcare Stakeholders - defines the 5 “p’s” of healthcare: patients, physicians, professional healthcare administrators, payers, policy makers

Chapter 2: History of healthcare information systems

Chapter 3: Types of healthcare data

Chapter 4: Interoperability and standards

Part 2: Acquisition and Implementation of HIS

Chapter 5: Electronic Health Records and Clinical Support Systems

Chapter 6: Project Management and Business Process Design

Chapter 7: System Life Cycle, Writing Requests for Proposals, Evaluating Bids

Part 3: Confidentiality, Privacy and Security

Chapter 8: Information Security

Chapter 9: Legal and Ethical Aspects of Health Care Information Systems

Part 4: Achieving IT Value Using Data Analytics

Chapter 10: Healthcare Databases/ Secondary Data Use

Chapter 11: Analytics in Healthcare

Chapter 12: Quality Assessment and Outcomes in Health Care