HealthCare Information Systems
NRS 330, 3 Course Credits
Fall 2014, Doane College
http://bb2.doane.edu

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Required Text:
Handbook of Informatics for Nurses & Healthcare Professionals, 5/E

Catalog Description:
This course provides a managerial perspective to the effective use of data and information technology to improve organizational performance in healthcare settings. Information systems and data management fundamentals will be reviewed. Students will learn how databases and other analytical tools are used to structure, analyze, and present information related to complex organizational and health care problems. Upon completion of the course, students will know how to develop strategies to identify operational and strategic information needs and how this information is used for management and decision-making in the context of challenges facing healthcare organizations today. Legal and ethical issues relating to information gathering and application will be explored.

Course Outcomes:
The goal of this Healthcare Information Systems course is for all students to be able to effectively:

- Explain and demonstrate knowledge of basic healthcare information systems concepts and terminology
- Think critically and apply Healthcare Information Systems concepts to real world experiences.
- Understand and Describe the relationship of HIS systems to Hospitals and Clinics
- Identify ways HIS systems are used in the current world of Healthcare and how they will be used in the future.
- Identify healthcare-related resources and tools for further investigation of the field

Learning Strategies Utilized to Accomplish Course Objectives:
- Lecture PowerPoint (to present new and relevant concepts in healthcare, disciplines, and theories)
- Blackboard online discussions (to promote critical thinking and apply Healthcare Information Systems concepts to everyday life)
- Assignments (i.e., case studies/essays, and 2 knowledge evaluations will be used to solidify course concepts and material in application, for further investigation of the field.)

Attendance/Participation Policy:
Regular virtual attendance is needed to apply class material that is not in the textbook via class discussion board posting, case study activities, as well as having access to resources posted on the
Blackboard site. If you are unable to participate each week on the discussion board, you will be responsible for notifying the instructor and completing all work assigned during your absence.

**Late Paper/Assignments Policy:**
Due to the nature of this online formatted course, there is some flexibility with submitting some assignments. You will be required to complete all case studies/assignments by the end of the course. Due dates will be posted under the Announcements or Assignment sections on Blackboard. You will be responsible for checking your Blackboard site regularly. The discussion board posts (and the reading assignments that align with the posts) are required on a weekly basis. If you do not post (or only submit an initial or one peer response post) by the end of each week, you may not earn full credit.

**Doane College Academic Integrity Policy**
The Doane College Academic Integrity Policy will be adhered to in this class. All projects and tests will represent your own work. Any use of others’ ideas and words without proper citation of sources is plagiarism and will result in penalties to be determined by the instructor and/or dean of undergraduate studies.

**Academic Accommodations:**
Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services. You must have documentation from the Academic Support Services office before accommodations can be granted.

**Blackboard:**
All assignments, announcements, power point lectures, and grades will be found on this website. It is crucial that you utilize this website in order for this class to be effective. Under the Assignment tab, you will find all text chapters with correlating assignments (i.e. lecture notes, articles, videos, discussion board posts, exams, or case study). Not all chapters have a required assignment attached.

**Points and Grading:**
Your grade for this course will be determined by the number of points you receive in each of the following sections.

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\begin{array}{cccc}
A=90\%+ & B=80-89\% & C=70-79\% & D=60-69\% & F=59\% \text{ and below} \\
\hline
\text{Pre/Post Evaluation} & \text{Discussion Board} & \text{Case Studies/Assignments} & \text{Quizzes} & \text{Participation Required-Ungraded} \\
10 \text{ pts each week} & 50 \text{ pts each x 8} & 100 \text{ pts} \\
\end{array}
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**Course Requirements:**

*Discussion Board*
All students will be required to participate with online discussion boards. There will be weekly discussion board posts required. Each week a journal topic/question will be posted on Blackboard. You will be required to post an initial response as well as response to at least one classmate. I highly encourage each student to make the initial response by Wednesday of each week, allowing for the remaining days of the week to respond to classmate’s posts and comments. Please keep the responses professional, using both personal experience/opinion but also information from the course text/material. You will receive credit for both your initial post (5 pts) and your response post (5 pts).
*Case Studies/Assignments*

There will be 8 case study/writing assignments due throughout the course worth 50 points each. The assignments are due by the end of the course. Specific instructions for each of these assignments will be provided at least one week prior to the due date. These assignments will include individual reflections while applying concepts from the text as well as your own life. A grading rubric will be available on Blackboard. These assignments can be submitted when completed each week or can be submitted as a whole before the last week of class. Each case study should be complete and up to 1 page in length. Students can select their case studies of choice from the end of the chapters that are assigned each week.

*Knowledge Evaluations*

There will be two 50 point open book evaluations during this class. I will create an online quiz and load it to the blackboard site for you to complete around week 4 and week 8. These quizzes will have questions from the chapters that have been assigned during the weeks prior to the evaluation.

*Caveat: Due to the nature of this online course, materials and requirements may change upon the discretion of the instructor.*
*Weekly Reading and Case Study Assignments*

- Please Choose 2 Case Studies from the end of the Chapters assigned for week 1 – week 6 and respond using personal experience as well as with examples and evidence from the text. These Case Study responses should be no more than 1 page in length. There will be a rubric provided explaining what needs to be included in each response.

**Week 1: General Introduction to Health Care Technology**

Chapters 1, Informatics in the Healthcare Professions; Chapter 3, Ensuring the Quality and Best Use of Information; Chapter 5, Professional Use of Electronic Resources

***Extra Technology Readings: Chapters 2, Hardware, Software, and the Role of Support Personnel; Chapter 4, The Internet and the World Wide Web: An Overview.***

**Week 2: Introduction to Healthcare Information Systems**

Chapter 6, Healthcare Information Systems; Chapter 8, Selecting a Healthcare Information System; Chapter 10, System Implementation and Maintenance

**Week 3: Security and Health Information Systems**

Chapter 12, Information Security and Confidentiality; Chapter 14, The Electronic Health Record; Chapter 16, Personal Health Records

**Week 4: Introduction and Application of Healthcare Information Systems**

Chapter 13, System Integration and Interoperability; Chapter 15, The Role of Standardized Terminology and Language in Informatics; Chapter 11, Information Systems Training; Chapter 23, Integrating Technology, Informatics and the Internet into Nursing Education;

**Week 5: Governing of Healthcare Information Systems**

Chapter 18, Health Policy and Health Information Technology; Chapter 19, Legislation; Chapter 20, Regulatory and Reimbursement Issues; Chapter 21, Accreditation Issues for Information System Design and Use

**Week 6: Implementation and Planning for a Healthcare Information System**

Chapter 7, Strategic Planning; Chapter 9, Improving the Usability of Health Informatics Applications; Chapter 22, Continuity Planning and Management (Disaster Recovery)

**Week 7: Other Topics in the World of Health Information Systems (No Case Study)**

Chapter 17, Health Information Exchanges; Chapter 24, Consumer Education and Informatics; Chapter 25, Telehealth; Chapter 26, Public Health Informatics; Chapter 27, Evidence Based Practice and Research

**Week 8: Final Research Paper and Case Study Completion**
*Healthcare Informatics Pop Quiz*

1. What is a Health Information System?
2.