

This course provides an overview of fundamental concepts of information management including the information that healthcare organizations generate and use, the importance of data quality, and external factors that impact healthcare data management.



Instructor

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Office Hours: Wednesday
3:30- 5pm and by
appointment

Course Meeting

Monday 5:45PM -
9:00PM and online

LEWIS 01516

Preparation

Status as a Health
Informatics student is a
prerequisite for this class.

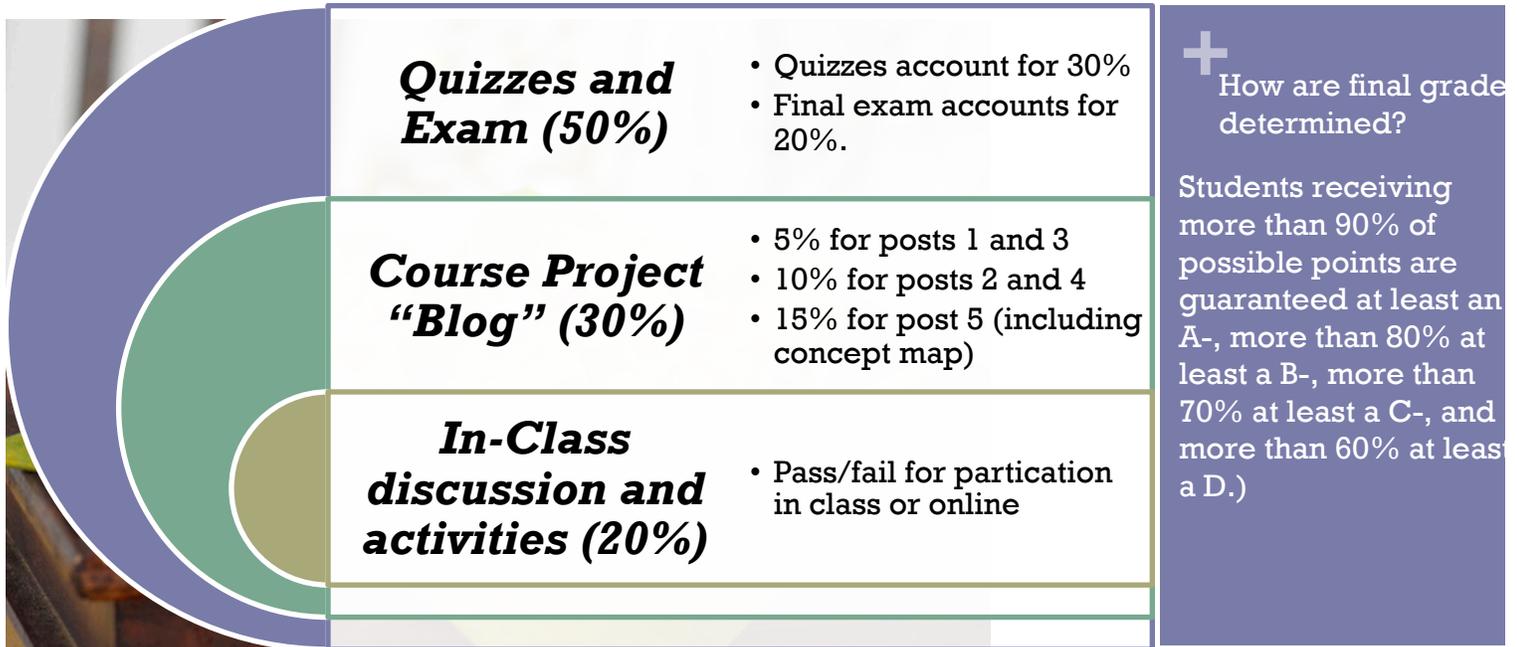


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Will late
assignments be
accepted?

Late assignments will not be accepted. Tests can be made up with a serious documented excuse (e.g. illness, death in the family) and must be arranged as soon as possible.

Course Overview

This course provides an overview of fundamental concepts of information management including the information that healthcare organizations generate and use, the importance of data quality, and external factors that impact healthcare data management. The curriculum will also examine information systems (i.e., the arrangement and interaction of information, processes, people, and technology) as well as system standards and security issues. Finally, special consideration will be given to management, responsibilities and challenges in aligning information technology (IT) planning with an organization's strategic planning as a means to create competitive advantage.



Assignments and Grade Calculation

- **In-Class discussion and activities (20%)** – students will be asked to bring assigned pre-class activities to class for discussion and to participate in group discussion and activities during class sessions. These assignments will generally be submitted on the discussion board. Participation (in-class or online) is required to receive full credit for these activities.
- **Quizzes and Exam (50%)**- There will be weekly quizzes and a final in class exam. Quizzes will be access through D2L and the final exam will be in class, online students will need to arrange a proctor. Exams and quizzes are open book/ open note, but timed so please study. You may not use the internet during quizzes or exams. Quizzes account for 30% of the grade and the final exam accounts for 20%.
- **Course Project “Blog” (30%)** – the course project will require each student to create a personal informatics blog. 5 posts will be required and are described in further detail in a separate document. The purpose of the blog is to demonstrate mastery of informatics concepts through application to a specific focus area of interest to each student.
 - 5% for posts 1 and 3
 - 10% for posts 2 and 4
 - 15% for post 5 (including concept map)

Can I take a quiz more than once?

Yes! you may take a quiz as many times as you wish before the final due date. The highest score will be recorded.

Where do I submit my blog posts?

Blog posts are submitted to 2 places.
 #1 shared on digication
 #2 submitted to the dropbox for a grade.

Where is my in-class discussion grade?

In class activities/ discussion participation is graded pass/fail at the end of the quarter. Complete in-class activities in class or online for full credit.

Course Format:

This course is blended with face-to-face and online sections. **It is expected that students complete each week's assigned reading/viewing assigned websites and videos prior to class.** During class, students will participate in discussion and learning activities that will require that students have a basic understanding of the topics attained through the required readings. Students will complete in-class activities on campus and remotely.

Most class periods will also include a guest presentation. I have invited guests from a range of backgrounds, who are at different points in their career trajectories. These presentations will enable you to interact with emerging and established leaders in the subfields of health information systems. It is expected that you will familiarize yourself with the guest's background and will prepare thoughtful questions for each guest.

What is the required textbook?

Contemporary Health Informatics by Mark L. Braunstein, Published by the Amer Health Information Mgmt, (2014)

ISBN 1584260319,
9781584260318

What are optional textbooks?

1. Glandon, G. L., Smaltz, D. H., & Slovensky, D. J. (2008). *Austin and Boxerman's information systems for healthcare management* (7th ed.). Chicago: Health Administration Press.
2. Hickey, J. & Bronsan, C. (2012). *Evaluation of health care quality in advanced practice nursing*. New York: Springer.
3. Kovner, A. R., **Knickman, J.**, & Weisfeld, V. (Eds.). (2008). *Jonas and Kovner's health care delivery in the United States* (10th edition). New York:
4. Shortliffe, E. H. & Cimino, J. J. (2006). *Biomedical informatics: Computer applications in health care and biomedicine* (3rd edition). New York: Springer.

What are the learning activities?

Engaged participation in class sessions for discussion, activities, & guest lectures

Self-directed required assignments and reading

Personal reflection project

Didactic lectures

Course Objectives

Upon completion of this course, the student will be able to:

#1 Recognize, analyze, and pose solutions for information processing challenges as faced by health professionals managing select patients, populations, or groups.

#2 Identify the current state of development of major areas within health informatics:

- Standards and terminologies
- Decision making and decision support
- Clinical information systems (institution, enterprise and public health, and personal health records)
- Systems life cycle, with particular attention to systems selection and implementation
- Knowledge management and information retrieved
- Information retrieval and human computer interaction

#3 Demonstrate the conceptual ability and technical skills to develop and execute an evaluation plan involving data extraction from practice information systems and databases.

#4 Consistent with ethical, legal, and social considerations, devise and evaluate biomedical informatics solutions to the information processing challenges identified.