

Syllabus

Instructor Information:

Laura Kneale, MS
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Course Website:

<https://canvas.uw.edu/courses/1054929>

Office Hours:

5-6:30pm on class days or by appointment

Course Description:

In the era of accountable care and healthcare reform, information technology has emerged as a powerful force in helping healthcare systems achieve multiple goals, including delivering safe and effective care. The explosive advances in information technology and its deployment, combined with the healthcare reform requirements, have created the need for skilled individuals who can develop, understand, and manage healthcare information and information technology systems. In this course, we will develop a high-level understanding of the significance of healthcare information systems, and the data created from these systems. To develop this perspective, we will review the history, explore current and future applications, and discuss the significant challenges facing the implementation of these systems. This course will cover such topics as privacy and security in clinical systems, healthcare data quality, and the organization of information technology departments in healthcare.

Course Sessions (for the latest schedule consult the Canvas page):

Session Number	Session Date	Session Topic	Related Book Chapters
1	July 25	Introduction to Course and History of Healthcare Information Systems	Chapters 1,4
2	July 27	Healthcare Environment and Current State of Healthcare Information Systems	Chapters 3, 6, and 11
3	August 1	Clinical Information Systems	Chapters 5 and 9
4	August 3	Administrative Healthcare Information Systems	Chapter 5 and 17
5	August 4	Implementing Health IT	Chapters 7 and 8
6	August 8	Healthcare Data	Chapters 2, 5, and 10
7	August 10	Developing an IT Strategy	Chapters 13 and 14

T BUS 590 C: Healthcare Information Technology
 Summer Quarter 2016

8	August 11	IT Governance and Leadership	Chapters 12, 15, and 16
9	August 15	Future Considerations	n/a
10	August 18	Final Student Presentations	n/a

Reading:

This course will cover a lot of material in a short period of time. For each topic, I will pull material from the related book chapters, and from supplemental material including journal articles and healthcare information systems associations. You will be expected to come prepared to engage in class discussions; however, I do not expect you to read all material, in-depth before class.

Grading:

This class will be assessed using a 100-point scale.

	Due Date (before class)	Points
Statement of Learning Objectives	July 27	10
Abstract for Class Project	August 4	10
Mid-term Learning Objective Reflection	August 8	5
Optional: Draft of Final Report	August 10	None
Final Report	August 18	25
Final In-Class Presentation	August 18	25
Final Learning Objective Reflection	August 18	10
Class Participation		15
Total Points		100

Due to the accelerated pace of this course, I will not be able to accept late assignments or provide extensions unless there are extenuating circumstances.

Learning Objective Reflections (25 points):

To ensure that the course is meeting your learning objectives, I will ask you to write a one-page statement of learning objectives on your goals for our class before the second class session (10 points). This reflection should describe why you are taking this class, what you hope to learn from the course, and how you plan to use the information in your current or future job/education. This will also be your chance to share with me your individual learning needs and preferences. I will ask you to revisit this reflection at the midpoint (August 8) and end of our class (August 18).

Class Participation (15 points):

I expect all students to participate meaningfully in class discussions, and come prepared with questions about the topics that we will cover in each session. Due to the accelerated

T BUS 590 C: Healthcare Information Technology
Summer Quarter 2016

pace of this course, I will deduct 7 points from your class participation if you miss more than three hours of class without a notification of extenuating circumstances.

Class Project:

This course will include an individual student project. For this project, I will ask you to identify a problem in healthcare that could be solved by a health information system, create a framework for a system acquisition process, and evaluate two systems that are currently available to help solve this issue. To avoid duplicate projects, I will ask you to email me the problem that you will be exploring by August 3rd. More information about the class project, including a grading rubric, is available on the course website.

Final Report (25 points):

The final report will be no more than 10 single spaced pages (excluding references, figures and tables).

The final project report must include a:

- Review of your research about the problem including: who the problem affects, what is the impact on the healthcare institution, and how the problem ultimately affects a healthcare institution's ability to perform safe and effective patient care.
- Description of a system acquisition process drawing on course material
- Evaluation of two systems that are currently on the market to address this problem
- Summary of the potential limitations of these systems
- Recommendation to the healthcare institution: to implement one of these systems or to build your own system
- Plan to move forward with your recommendation

To gain initial feedback on the content of your report, you may turn in a draft or portion of your report by August 10th. I will provide non-graded feedback back to the students by August 14th.

Final Presentation (25 points):

On the final day of class, each student will prepare a 20-minute presentation on their final project. This presentation will include a description of the healthcare problem, the requirements for the information system, an analysis of two existing information systems, and your recommendations. A grading rubric for this presentation is available on the course website.

Administrivia:

Textbook:

Health Care Information Systems: A Practical Approach for Health Care Management, 3rd Edition; Wager, Lee and Glaser; Wiley and Sons. Please note that you can access this for free in an e-book version through the UW library.