



Healthcare Information Technology

Course #: PADM 611

Credits: 3

Syllabus Version: v082522

Professor: Nicholas Edwardson, PhD, MS

Email: nedwardson@unm.edu

Phone/Text: 505-926-1595

Office: 3008 Social Science Bldg

Office Hours: Wednesdays, 4:30-6:00 PM and by appointment

Term: Fall 2022

Class: Thursdays, 6:00-8:30 PM

Course Description

“What gets measured, gets managed”

-Peter Drucker

This course introduces key concepts and issues surrounding the adoption and use of information systems within health service organizations. The technical aspects of information gathering within population health organizations will be discussed within the context of how management uses information to execute various health quality, clinical, and strategic systems. Current issues surrounding the gathering, storage, and usage of health information will be discussed.

The success of this course relies heavily upon how engaged participants are in the various components of the course. The role of the instructor is to facilitate and guide learning through class discussions, activities, and feedback. The course favors an active role for participants over the more passive role taken in a lecture-oriented format. Be prepared to engage the course material and each other to draw on assigned readings and your experiences working and interacting with healthcare organizations. We will work from the premise that all participants bring important knowledge, skills, experiences, and insights to the course that we can draw upon to create a successful collaborative learning experience.

Course Objectives and Competencies

1. Understand the roles national private sector and government initiatives have played in the advancement of health information technology in the US
2. Identify common issues related to health care data quality
3. Categorize the major types of administrative and clinical information systems used in health care and population health management
4. Deconstruct current issues pertaining to the use of health data systems including interoperability, usability, and health IT safety
5. Identify and define the data and information needs of health systems in managing population health effectively under value-based payment models
6. Distinguish key health IT tools and strategies for interorganizational population health management including EHRs, registries, risk stratification, patient engagement, care coordination, analytics, health information exchange, and telehealth
7. Guide a health service organization through the process of selecting a health care information system
8. Create and manipulate workflow analyses to understand how IT interventions affect population health providers across units or organizations
9. Utilize project management skills to oversee the implementation of a new health information system or major update within a health service organization
10. Demonstrate the ability to manipulate information and data using common software packages
11. Synthesize information about an unknown topic using various public use data files and information search engines
12. Organize management information evidence to communicate to other health care professionals using dashboards and other data visualization techniques
13. Derive evidence-based policy aimed at improving provider behavior and improving population health
14. Conduct a technical presentation on a disruptive health information technology

Course Materials

Wager, K. A., Lee, F. W. and Glaser, J. P. (2017). *Health Care Information Systems: A Practical Approach for Health Care Management, 5th Edition*. San Francisco: Jossey-Bass Publishers. ISBN-13: 978-1119853862

The book is available for sale OR you can rent it (hardcopy or electronic download). The following [Amazon link](#) provides one source for the book. There are likely many others.

Course Expectations

Participation & Attendance

The majority of knowledge-transfer will occur in class. To accomplish this, students obviously must be both physically (albeit virtually) and mentally present. There is no 'participation grade' per se, however it will be nearly impossible to receive a satisfactory grade should one miss more than one class. Should you need to miss a class, please email the instructor prior to your absence. It will then be up to you to acquire notes from a classmate or meet with the instructor for content clarification. This course's assignments and exams will be the easiest for those who participate in class discussion (that is, ask questions and make meaningful contributions to class dialogue), take concise notes, and complete the readings.

Take-home Assignments

The take-home assignments serve as an opportunity to demonstrate your knowledge and application of the content covered in class. Combined, the three take-home assignments will account for 51 percent of your total grade. Assignments are due at 6PM on the date noted on the course schedule below. All assignments should be turned in via Canvas.

State-of-the-Art Presentations

The presentation assignments serve as an opportunity to learn and share with your classmates about a leading healthcare organization, executive leader, or best practice. During the first week of class, each student will be assigned to an article provided by the instructor. Presentations cannot exceed 15 minutes. A timer will note the end of your presentation and you will only be graded on the material that is presented. Copies of the presentation must be emailed to the entire class prior to the presentation. Your presentation will account for 15 percent of your total grade. Students can expect a minimum of one exam question to be generated from each presentation.

Exams

One midterm and one final exam will be administered. The exams will consist of multiple choice, true/false, and short answer questions. Combined, the two exams will account for 34 percent of your total grade.

Final Grade Composition

| | |
|--------------------------------|--------------------------------------|
| Take-home assignments: | 51 points (17 points per assignment) |
| Exams: | 34 points (17 points per exam) |
| State-of-the-art presentation: | 15 points |
| <hr/> | |
| | 100 Total Points |

Grading Scale

A+: 99 – 100%
A: 93 – 98%
A-: 90 – 92%
B+: 87 – 89%
B: 83 – 86%
B-: 80 – 82%
C+: 75 – 79%
C: 70 – 74%
C-: 65 – 69%
Fail: Below 65%

Attendance Policy

Regular attendance is required. UNM Pathfinder policies apply, which in part means instructor drops based on non-attendance are possible. After your first unexcused absence, each subsequent unexcused absence will result in the reduction of a half letter grade.

Accommodation Statement

In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as I am not legally permitted to inquire. Students who may require assistance in emergency evacuations should contact the instructor as to the most appropriate procedures to follow. Contact Accessibility Resource Center at 277-3506 for additional information.

UNM is committed to providing courses that are inclusive and accessible for all participants. As your instructor, it is my objective to facilitate an accessible classroom setting, in which students have full access and opportunity. If you are experiencing physical or academic barriers, or concerns related to mental health, physical health and/or COVID-19, please consult with me after class, via email/phone or during office hours. You are also encouraged to contact Accessibility Resource Center at arcsrvs@unm.edu or by phone 277-3506.

This is a three credit-hour course. Class meets for one 150-minute session of direct instruction for seventeen weeks during the Fall 2020 semester. Students are expected to complete a *minimum* of six hours of out-of-class work (or homework, study, assignment completion, and class preparation) each week.

Academic Integrity

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or otherwise fails to meet the standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but

is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Title IX

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see pg 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>

Citizenship and/or Immigration Status

All students are welcome in this class regardless of citizenship, residency, or immigration status. Your professor will respect your privacy if you choose to disclose your status. As for all students in the class, family emergency-related absences are normally excused with reasonable notice to the professor, as noted in the attendance guidelines above. UNM as an institution has made a core commitment to the success of all our students, including members of our undocumented community. The Administration’s welcome is found on our website: <http://undocumented.unm.edu/>.

Support in Receiving Help and in Doing What is Right

I encourage students to be familiar with services and policies that can help them navigate UNM successfully. Many services exist to help you succeed academically and to find your place at UNM, see students.unm.edu or ask me for information about the right resource center or person to contact. UNM has important policies to preserve and protect the academic community, especially policies on student grievances (Faculty Handbook D175 and D176), academic dishonesty (FH D100), and respectful campus (FH CO9). These are in the *Student Pathfinder* (<https://pathfinder.unm.edu>) and the *Faculty Handbook* (<https://handbook.unm.edu>). Please ask for help in understanding and avoiding plagiarism or academic dishonesty, which can both have very serious disciplinary consequences.

Land Acknowledgement

Founded in 1889, the University of New Mexico sits on the traditional homelands of the Pueblo of Sandia. The original peoples of New Mexico Pueblo, Navajo, and Apache since time immemorial, have deep connections to the land and have made significant contributions to the broader community statewide. We honor the land itself and those who remain stewards of this land throughout the generations and also acknowledge our committed relationship to Indigenous peoples. We gratefully recognize our history.

UNM Policy on Masks

All students, staff, and instructors are required to wear face masks in indoor classes, labs, studios and meetings on UNM campuses, see the masking requirement. Students who do not wear a mask indoors on UNM campuses can expect to be asked to leave the classroom and to be dropped from a class if failure to wear a mask occurs more than once in that class. Students and employees who do not wear a mask in classrooms and other indoor public spaces on UNM campuses are subject to disciplinary actions. UNM will periodically evaluate and update the mask policy relative to public health conditions.

Class Schedule*

| Week | Date | Topic | Reading | Assignment Due |
|---------|--------|--|----------------|----------------|
| Week 1 | 25-Aug | Introduction to HIT | Wager Ch 1 | |
| Week 2 | 1-Sep | The Nature of Health Data | Wager Ch 2 | |
| Week 3 | 8-Sep | Bring Coffee: HC Data Regulations, Laws, Standards, & Measurement I | Wager Ch 9-10 | |
| Week 4 | 15-Sep | No Class | | |
| Week 5 | 22-Sep | Excel / Dashboard Workshop I | | |
| Week 6 | 29-Sep | Excel / Dashboard Workshop II | | |
| Week 7 | 6-Oct | Bring Coffee: HC Data Regulations, Laws, Standards, & Measurement II | Wager Ch 10-11 | |
| Week 8 | 13-Oct | Fall Break - No Class | | Assignment 1 |
| Week 9 | 20-Oct | Midterm | | |
| Week 10 | 27-Oct | No Class | | |
| Week 11 | 3-Nov | Policy, Population Health & HIT I | Wager Ch 3-4 | |
| Week 12 | 10-Nov | Policy, Population Health & HIT II | Wager Ch 3-4 | Assignment 2 |
| Week 13 | 17-Nov | Workflow Analysis Workshop | | |
| Week 14 | 24-Nov | No Class | | |
| Week 15 | 1-Dec | System Acquisition | Wager Ch 5 | |
| Week 16 | 8-Dec | System Implementation | Wager Ch 6 | |
| Week 17 | 15-Dec | Final Exam | | Assignment 3 |

**Subject to change*

Presentation Schedule*

<<<TBD>>>

**Subject to change*