

HL 330: Health Informatics

School of Business and Management

5 Credits

Effective Date Fall 2019

Grading Type: Decimal

Access to the Internet is required.

All written assignments must be in Microsoft-Word-compatible formats.

See the library's APA Style Guide tutorial for a list of resources that can help you use APA style.

Faculty Information

Professional experience information for instructors is found under *Syllabus, Schedule, and Course Team* in the online course menu.

Contact Information

Contact information for instructors is found under *Syllabus, Schedule, and Course Team* in the online course menu.

Course Description

Health informatics covers the use of information technology to support operational, management, and clinical decision making in a healthcare organization. This course provides students with an understanding of informatics and its healthcare applications. Emphasis is placed on the importance of security, privacy, and confidentiality of patient data. Students will gain knowledge of electronic medical records and their requirements of integration and interoperability. Students will become familiar with the use of mobile health technology, telemedicine, and wearable mobile devices.

Course Resources

Required and recommended resources to complete coursework and assignments are found on the course [Reading List](#). Access is provided through the *Reading List* link in your online course as well as from the library homepage (“Find Your Reading List” button).

Note: Required resources that must be purchased by the student are tagged “Purchase from a vendor of your choosing.” Required resources with a direct link, “Available through CityU Library”, are available electronically at no cost to students.

Students in Canada may purchase course resources from the [Canada Bookstore](#), and students outside the U.S. and Canada should contact their advisor or textbook coordinator for additional information.

Course Outcomes

This course will prepare students to:

- Analyze the balance between cost, quality, and access when implementing new technology.
- Describe the ethical and legislative aspects associated with health informatics.
- Investigate how health informatics and technology support the operational, managerial, and clinical decision making in a healthcare organization.
- Outline the technology trends in healthcare information systems
- Understand the concept of meaningful use of an electronic health record (EHR), and describe some of the criteria that both individual providers and hospitals need to achieve to earn incentives for meaningfully using an EHR.

Grading Scale

The grades earned for the course will be calculated using City University of Seattle’s decimal grading system, found in the current [University Catalog](#).

Grading rubrics with details on how each assignment will be graded are located under *Assignments* and/or in *My Grades* in the online course menu. Students should review the rubric for each assignment prior to completing their work in order to understand how it will be assessed.

Course Assignments and Grading

Assignments

Informatics and Decision Making Paper (20% of Final grade)

Healthcare leaders must understand the history and evolution of healthcare information technology (HIT) in order to be prepared for changes in this field in the future. In this 3-5 page paper, students will research the history of HIT and will investigate the way healthcare leaders and organizations use HIT to provide valid, reliable, and secure clinical and administrative information to assist their organizations in making optimal clinical, operational, and strategic decisions. This investigation should include how the use of the electronic medical record (EMR) has impacted clinical decision making. APA formatting and a minimum number of five professional references are required. References should be less than five years old in order to reflect current information.

<i>Components</i>	<i>% of Grade</i>
Style and Mechanics	10%
History of HIT	25%
Use of HIT	55%
APA Style (citations, references, and formatting)	10%
TOTAL	100%

Mobile Technology Paper (20% of Final grade)

Mobile technology is used to provide a number of services in healthcare today. Technology such as mobile computer carts that allow access to the electronic medical record from the patient's bedside, telemedicine, remote monitoring via wearable devices, mobile health apps, secure text messaging, and patient portals have changed the way healthcare is delivered. In this 3-5 page paper, students will describe a minimum of two areas/items of mobile technology. The description should include a history and purpose of the mobile technology, the benefit to the patient and to the provider, and the costs associated with the technology. APA formatting and a minimum number of five professional references required. References should be less than five years old in order to reflect current information.

<i>Components</i>	<i>% of Grade</i>
History of Technologies	20%

Purpose of Technologies	15%
Benefits to Patient	15%
Benefits to Provider	15%
Costs	15%
Style and Mechanics	10%
APA Style (citations, references, and formatting)	10%
TOTAL	100%

Meaningful Use Paper (20% of Final grade)

As part of the HITECH Act, hospitals and healthcare providers are given incentives for proving that their use of an electronic health record (EHR) results in significant, measurable improvements to the quality and affordability of care - otherwise known as meaningful use. In this 3-5 page paper, students will describe the use of EHRs in hospitals and physician practices and will discuss how the EHR meets the requirements for meaningful use. This discussion should include an overview of meaningful use standards, and the incentives and penalties associated with meaningful use. Students should discuss the obstacles faced in meeting meaningful use standards, such as physician resistance, or scope of practice of healthcare employees, and how those obstacles may be overcome. APA formatting and a minimum number of five professional references required. References should be less than five years old in order to reflect current information.

<i>Components</i>	<i>% of Grade</i>
Meaningful Use Standards	40%
Obstacles	40%
Style and Mechanics	10%
APA Style (citations, references, and formatting)	10%
TOTAL	100%

Cost, Quality, and Access Challenges Paper (20% of Final grade)

Cost, quality, and access are interrelated in the healthcare system. A change to one of these three areas impacts the others. In this 3-5 page paper, students will analyze how these three areas connect and overlap. Students must include a connection to HIT, and how a healthcare organization utilizes HIT data to make decisions that affect cost, quality, and access. APA formatting and a minimum number of five professional references required. References should be less than five years old in order to reflect current information.

<i>Components</i>	<i>% of Grade</i>
Cost, Quality, and Access	40%
Use of HIT Data	40%
Style and Mechanics	10%
APA Style (citations, references, and formatting)	10%
TOTAL	100%

Essays and Quizzes (20% of Final Grade)

Each week students will write a short (3-5 paragraph) essay on the topic provided in the classroom. Students will have a one-question quiz each week. The quiz is not timed and students may use their text or other materials to research the answer.

Course Policies

Professional Writing

Assignments require error-free writing that uses standard English conventions and logical flow of organization to address topics clearly, completely, and concisely. CityU requires the use of APA style.

University Policies

Students are responsible for understanding and adhering to all of City University of Seattle's academic policies. The most current versions of these policies can be found in the [University Catalog](#) that is linked from the CityU Web site.

Antidiscrimination

City University of Seattle and its staff and faculty are committed to supporting our students. We value equity, diversity, and inclusion as a way of life as well as the educational opportunities it

provides. City U will not tolerate any form of discrimination based on race, color, ethnicity, sexual orientation, gender identification, socioeconomic status, or religious values. If you have experienced any discrimination based on any of the above, we encourage you to report this to the University. Please report this to your instructor. If you do not feel safe reporting this to your instructor, please report to the Provost or to the Vice President of Student Affairs.

Non-Discrimination & Prohibition of Sexual Harassment

City University of Seattle adheres to all federal, state, and local civil rights laws prohibiting discrimination in employment and education. The University is committed to ensuring that the education environment is bounded by standards of mutual respect and safety and is free from discriminatory practices.

In the U.S., the University is required by Title IX of the Education Amendments of 1972 to ensure that all of its education programs and activities do not discriminate on the basis of sex/gender. Sex include sex, sex stereotypes, gender identity, gender expression, sexual orientation, and pregnancy or parenting status. Sexual harassment, sexual assault, dating and domestic violence, and stalking are forms of sex discrimination, which are prohibited under Title IX and by City University of Seattle policy. City University of Seattle also prohibits retaliation against any person opposing discrimination or participating in any discrimination investigation or complaint process internal or external to the institution. Questions regarding Title IX, including its application and/or concerns about noncompliance, should be directed to the Title IX Coordinator. For a complete copy of the policy or for more information, visit the [Title IX](#) portal page or contact the Title IX Coordinator.

In Canada, in compliance with the British Columbia Human Rights Code, the Alberta Human Rights Act, WorksafeBC, and the Workers' Compensation Board of Alberta, the University believes that its environment should at all times be supportive and respectful of the dignity and self-esteem of individuals. Discrimination, harassment and bullying conduct, whether through person-to-person behaviour or via electronic communications such as email or social media is not acceptable and will not be tolerated. As an educational institution, it is our responsibility to cultivate an environment of excellence, equity, mutual respect and to recognize the value and potential of every individual. The University will take all necessary steps to meet or exceed the requirements of the law to prevent discrimination, harassment and bullying. The Respectful Workplace Policy for the prevention of discrimination, harassment and bullying policy and procedure can be found at the [CityU website](#) under the Policies section or at [CityU in Canada](#) website.

Religious Accommodations

City University of Seattle has a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The University's policy, including more information about how to request an accommodation, is available in the University Catalog and on the my.cityu.edu student portal. Accommodations must be requested by the 20% mark of this course (e.g. day 14 of a ten-week course, day 7 of a 5-week course) using the Religious Accommodations Request Form found on the student dashboard in the my.cityu.edu student portal.

Academic Integrity

Academic integrity in students requires the pursuit of scholarly activity that is free from fraud, deception and unauthorized collaboration with other individuals. Students are responsible for understanding CityU's policy on academic integrity and adhering to its standards in meeting all course requirements. A complete copy of this policy can be found in the [University Catalog](#) under *Student Rights and Responsibilities* on the page titled *Academic Integrity Policy*.

Attendance

Students taking courses in any format at the University are expected to be diligent in their studies and to attend class regularly.

Regular class attendance is important in achieving learning outcomes in the course and may be a valid consideration in determining the final grade. For classes where a physical presence is required, a student has attended if they are present at any time during the class session. For online classes, a student has attended if they have posted or submitted an assignment. A complete copy of this policy can be in the [University Catalog](#) under *Student Rights and Responsibilities* on the page titled *Attendance*.

Final Assignment Due Date

Final assignments for each class at CityU must be due on or before the final date of the course as indicated in the university's course information system. Due dates that extend beyond the final date of the course may negatively impact tuition funding for students.

Support Services

Disability Services Accommodations Statement

Students with a documented disability who wish to request academic accommodations are encouraged to contact Disability Support Services to discuss accommodation requests and eligibility requirements. Please contact Disability Support Services at disability@cityu.edu or 206.239.4752 or visit the [Disability Support Services](#) page in the my.cityu.edu portal. Confidentiality will be observed in all inquiries. Once approved, information about academic accommodations will be shared with course instructors.

Library Services

CityU librarians are available to help students find the resources and information they need to succeed in this course. Contact a CityU librarian through the [Ask a Librarian](#) service, or access [library resources and services online](#), 24 hours a day, seven days a week.

Smarthinking Tutoring

CityU students have access to free online tutoring offered through Smarthinking, including writing support, from certified tutors 24 hours a day, seven days a week. Contact CityU's Student Support Center at mycityusupport@cityu.edu to request a user name and password.

Course Schedule

The Course Schedule is located in the online course shell in the Syllabus, Schedule, and Course Team module.