COURSE OUTLINE: HIN204 - HEALTH I.T. & CLINIC

Prepared: Joshua McColeman
Approved: Martha Irwin - Dean

Course Code: Title	HIN204: HEALTH INFORMATICS TECH & CLINICAL PRACT
Program Number: Name	2197: HEALTH INFORMATICS
Department:	COMPUTER STUDIES
Academic Year:	2025-2026
Course Description:	This course will increase the ability to analyze health informatics and health information technology provincially, nationally, and globally. This course will also study the influence of digitization on clinical practice. In the realm of clinical practice, we will study the development of electronic health records, patient portals, mobile technologies, and other clinical tools. Students will be expected to research any new or evolving technologies and their impact on clinical practice, as well.
Total Credits:	3
Hours/Week:	3
Total Hours:	42
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**2197 - HEALTH INFORMATICS** VLO 1 Assess organizational requirements for health information system technologies (HIST). VLO 6 Synthesize relevant local, national and global health care and health information management issues, trends, and evolving technologies to support health information systems and processes.
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

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Other Course Evaluation & Assessment Requirements:	Grade Definition
	A+ = 90-100%
	A = 80-89%
	B = 70-79%
	C = 60-69%
	D = 50-59%
	F < 50%

CR Credit for diploma requirements has been awarded.
S Satisfactory achievement in field /clinical placement or non-graded subject area.
U Unsatisfactory achievement in field/clinical placement or non-graded subject area.
X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR Grade not reported to Registrar`s office.
W Student has withdrawn from the course without academic penalty.

Students are expected to be present to write all tests in class, unless otherwise specified. If a student is unable to write a test due to illness or a legitimate emergency, that student must contact the professor prior to class and provide reasoning. Should the student fail to contact the professor, the student shall receive a grade of zero on the test.

If a student is not present 10 minutes after the test begins, the student will be considered absent and will not be given the privilege of writing the test.
Students exhibiting academic dishonesty during a test will receive an automatic zero. Please refer to the College Academic Dishonesty Policy for further information.

In order to qualify to write a missed test, the student shall have:
a.) attended at least 75% of the classes to-date.
b.) provide the professor an acceptable explanation for his/her absence.
c.) be granted permission by the professor.

NOTE: The missed test that has met the above criteria will be an end-of-semester test.

Labs / assignments are due on the due date indicated by the professor. Notice by the professor will be written on the labs / assignments and verbally announced in advance, during class.

Labs and assignments that are deemed late will have a 10% reduction per academic day to a maximum of 5 academic days at 50% (excluding weekends and holidays). Example: 1 day late - 10% reduction, 2 days late, 20%, up to 50%. After 5 academic days, no late assignments and labs will be accepted. If you are going to miss a lab / assignment deadline due to circumstances beyond your control and seek an extension of time beyond the due date, you must contact your professor in advance of the deadline with a legitimate reason that is acceptable.

It is the responsibility of the student who has missed a class to contact the professor immediately to obtain the lab / assignment. Students are responsible for doing their own work. Labs / assignments that are handed in and are deemed identical or near identical in content may constitute academic dishonesty and result in a zero grade.

Students are expected to be present to write in-classroom quizzes. There are no make-up options for missed in-class quizzes.

Students have the right to learn in an environment that is distraction-free, therefore, everyone is expected to arrive on-time in class. Should lectures become distracted due to students walking

	in late, the professor may deny entry until the 1st break period, which can be up to 50 minutes after class starts or until that component of the lecture is complete.
	The total overall average of test scores combined must be 50% or higher in order to qualify to pass this course. In addition, combined tests, Labs / Assignments total grade must be 50% or higher.
Books and Required Resources:	Key Advances in Clinical Informatics by Aziz Sheikh, Kathrin M. Cresswell Publisher: Academic Press Edition: 2017 ISBN: 9780128095232

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Analyze the implementation and impact of clinical information systems across care settings and evaluate interoperability standards in health informatics.	1.1 Understand how clinical information systems are implemented and used within inpatient and outpatient settings. 1.2 Assess the impact of electronic health records on clinical workflow and outcomes. 1.3 Interpret key interoperability standards at the provincial and national levels (e.g. HL7, FHIR). 1.4 Explore threats and risk management techniques for privacy and security.
Course Outcome 2	**Learning Objectives for Course Outcome 2**
Evaluate clinical decision support systems and their role in knowledge management and predictive analytics	2.1 Examine the effectiveness of clinical decision support tools in supporting evidence-based practice. 2.2 Analyze how predictive analytics can improve population health management. 2.3 Describe various technologies used for decision making. 2.4 Assess tools and technologies used in clinical decision making and care optimization.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
Assess the adoption and impact of emerging technologies such as mobile health, AI, and wearable devices in clinical practice and patient engagement.	3.1 Critique the effectiveness and limitations of mobile health applications and telehealth systems. 3.2 Describe the challenges and benefits of cloud computing in healthcare. 3.3 Analyze the role of machine learning cases in clinical care and electronic health records optimization. 3.4 Compare features and challenges of patient portals and personal health records. 3.5 Assess the role of social media, mobile apps, and wearable technology in promoting health literacy and engagement.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments	40%
Quizzes	10%
Test 1	25%
Test 2	25%

Date: June 25, 2025

| **Addendum:** | Please refer to the course outline addendum on the Learning Management System for further information. |