



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

Prepared: Joshua McColeman

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	HIN204: HEALTH INFORMATICS TECH & CLINICAL PRACT
Program Number: Name	2197: HEALTH INFORMATICS
Department:	COMPUTER STUDIES
Semesters/Terms:	20S
Course Description:	This course will increase the understanding of 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:	45
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 2 Formulate change strategies to implement appropriate health information systems technologies (HIST) within the health-care setting. VLO 4 Apply business and system analysis techniques to evaluate the effectiveness of health information systems technologies within a health-related setting. 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 6 Locate, select, organize, and document information using appropriate technology and information systems. 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 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects.



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	EES 11 Take responsibility for ones own actions, decisions, and consequences.								
Course Evaluation:	Passing Grade: 50%, D								
Other Course Evaluation & Assessment Requirements:	<p>The student must pass both the lab and test portions of the course.</p> <p>Attendance: Sault College is committed to student success. There is a direct correlation between academic performance and class attendance, therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.</p> <p>Absences due to medical or other unavoidable circumstances should be discussed with the instructor. Students are required to be in class on time and attendance will be taken within the first five minutes of class.</p> <p>Absentee reports will be discussed with each student during regular meetings with Faculty Advisors.</p> <p>Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail) 49% and below 0.00 CR (Credit) 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</p>								
Books and Required Resources:	<p>Key Advances in Clinical Informatics by Aziz Sheikh Publisher: Academic Press Edition: 2017 ISBN: 9780128095232</p>								
Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th>Course Outcome 1</th><th>Learning Objectives for Course Outcome 1</th></tr> </thead> <tbody> <tr> <td>Information systems in clinical practice.</td><td> 1.1 Understand how clinical information systems are implemented and used within inpatient and outpatient settings. 1.2 Explain how electronic health records impact clinical practice. 1.3 Describe interoperability and the facilitating standards. 1.4 Explore threats and risk management techniques for privacy and security. </td></tr> <tr> <th>Course Outcome 2</th><th>Learning Objectives for Course Outcome 2</th></tr> <tr> <td>Clinical decision support and knowledge management.</td><td> 2.1 Examine the state of clinical decision support and approaches to knowledge management. 2.2 Understand predictive analytics and population health. 2.3 Describe various technologies used for decision making. 2.4 Identify tools used to aid clinical practice. </td></tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	Information systems in clinical practice.	1.1 Understand how clinical information systems are implemented and used within inpatient and outpatient settings. 1.2 Explain how electronic health records impact clinical practice. 1.3 Describe interoperability and the facilitating standards. 1.4 Explore threats and risk management techniques for privacy and security.	Course Outcome 2	Learning Objectives for Course Outcome 2	Clinical decision support and knowledge management.	2.1 Examine the state of clinical decision support and approaches to knowledge management. 2.2 Understand predictive analytics and population health. 2.3 Describe various technologies used for decision making. 2.4 Identify tools used to aid clinical practice.
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	Course Outcome 3	Learning Objectives for Course Outcome 3						
	Mobile, artificial intelligence, and wearable technology.	3.1 Describe various aspects of mobile health including the evidence supporting mobile health use and the accompanying issues. 3.2 Describe the challenges and benefits of cloud computing in healthcare. 3.3 Explore the role of machine learning in healthcare and electronic health records. 3.4 Explore patient portal and personal health record components. 3.5 Understand the role of social media and apps. 3.6 Explore the use of smartphones and wearables.						
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Assignments</td><td>50%</td></tr><tr><td>Tests</td><td>50%</td></tr></table>		Evaluation Type	Evaluation Weight	Assignments	50%	Tests	50%
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Date:	March 31, 2020							
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.							

