COURSE OUTLINE: HIN202 - HEALTH DATA STANDARD

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Course Code: Title	HIN202: HEALTH DATA STANDARDS
Program Number: Name	2197: HEALTH INFORMATICS
Department:	COMPUTER STUDIES
Semesters/Terms:	22W, 21F, 22W
Course Description:	Students will learn the very important relationship between health data standards and health informatics. Learners will be expected to understand specific topics, such as: minimum data sets, nomenclature, classification systems, taxonomies, and the significance of data standards. Minimum data sets like the Discharge Abstract Database (DAD), National Ambulatory Care Reporting System (NACRS) and Canadian MIS database (CMDB), and others will be analyzed.
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 3 Develop, implement, and evaluate health information management practices, policies and processes to support client care, organizational goals, operations, and regulatory compliance. VLO 4 Apply business and system analysis techniques to evaluate the effectiveness of health information systems technologies within a health-related setting. VLO 5 Integrate relevant standards and professional, ethical and legislative requirements with the appropriate health information system technologies. 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. VLO 7 Design training and education for the effective use of HIST throughout an organization. VLO 8 Communicate effectively and professionally to promote inter-professional collaboration across the organization.
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.

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

EES 2	Respond to written, spoken, or visual messages in a manner that ensures effective communication.
EES 3	Execute mathematical operations accurately.
EES 4	Apply a systematic approach to solve problems.
EES 5	Use a variety of thinking skills to anticipate and solve problems.
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.
EES 11	Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Course Outcome 1: Describe accurate codes and standards to relevant personal health information from individual client visits by identifying coding, classification and abstracting systems proficiently.	1.1 Describe different classification and data abstraction systems in Canada including acute care, rehab, primary care, mental health, and community care. 1.2 Understand classification systems implementation, including but not limited to: training, standards, minimum data set (MDS), cost, technology, care level, non-mandated implementation considerations. 1.3 Demonstrate an understanding of the ICD-10-CA and CCI classification systems. 1.4 Explain grouping and case weighting methodologies used in Canada and how diagnosis and intervention coded data are used within these systems (e.g. Case Mix Groups, Resource Intensity Weight, Day Procedure Groups, and Comprehensive Ambulatory Classification System).
Course Outcome 2	**Learning Objectives for Course Outcome 2**
Course Outcome 2: Use knowledge of data and information standards to meet requirements for data collection, quality and information management.	2.1 Explain the relationship between data quality and standards development initiatives and uses of data in health care. 2.2 Participates in the recommendation and implementation of mechanisms to improve the quality and consistency of information received from these systems/sources utilizing local, provincial and national data standards.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
Course Outcome 3: Identify relevant sources of demographic, clinical, and financial data and	3.1 Describe health data and information repositories, including but not limited to: CIHI, Statistics Canada, Ministries of Health (MoH), National Library of Medicine (NLM).

	authoritative sources of routinely collected data for purposes of epidemiological research and to meet requested information needs.	3.2 Summarize the application of privacy, security and confidentiality principles in health information practice, including but not limited to: how client privacy is respected, confidentiality maintained and security ensured during data collection, use, disclosure, management, retention and destruction. 3.3 Explain the definition and management of differing levels of information, for example: identifiable personal health information, de-identified information, and aggregate health information. 3.4 Summarize the application of privacy, security and confidentiality principles in a spectrum of settings including health care delivery institutions, physician offices, Telehealth, remote locations, statistical organizations, etc.
	Course Outcome 4	**Learning Objectives for Course Outcome 4**
	Course Outcome 4: Understand the retrieval, analysis and presentation of relevant health information to stakeholders to support organizational decision-making, epidemiological studies and clinical research.	4.1 Summarize methods for assessing and improving the quality of care and services, including but not limited to: cost benefit analysis, fishbone diagrams, process mapping. 4.2 Describe quality management including but not limited to: CQI, LEAN and the relationship to health care data. 4.3 Understand relationship between outcome measurement and quality management initiatives.
	Course Outcome 5	**Learning Objectives for Course Outcome 5**
	Course Outcome 5: Discuss current and emerging technologies to support the management, analysis and presentation of health information.	5.1 Understand graphical and tabular presentation of health care data to facilitate decision making, including but not limited to: balanced score cards, dashboards. 5.2 Explain the analysis of health care data and information using presentation software.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments	40%
Final Project	30%
Tests	30%

Date: August 13, 2021

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