COURSE OUTLINE: HIN203 - HEALTH INFO SYS ANLS

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Course Code: Title	HIN203: HEALTH INFORMATICS SYSTEMS ANALYSIS & EV
Program Number: Name	2197: HEALTH INFORMATICS
Department:	COMPUTER STUDIES
Academic Year:	2023-2024
Course Description:	This course focuses on current and evolving systems used in health care settings. Students will assess existing processes and create potential ones using different business or clinical process mapping methodologies and modeling tools. Concepts, techniques, and methodologies used in a systems development life cycle, as well as strategies of systems analysis, design and implementation will be discussed. The use of a variety of IT infrastructure management models will be studied. The role of various individuals in an organization will be analyzed in light of best practices in system development, training and implementation.
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 4 Apply business and system analysis techniques to evaluate the effectiveness of health information systems technologies within a health-related setting. 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. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. 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:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
Other Course Evaluation & Assessment Requirements:	The student must pass both the lab and test portions of the course. 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 the class. Labs and assignments that are deemed late will have the following penalty: 1 day late - 10% reduction, 2 days late, 20% reduction, 3 days late, 30% reduction. After 3 days, no late assignments and labs will be accepted. 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 is 50 minutes into the class or until that component of the lecture is complete. 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.

Course Outcomes and Learning Objectives:

Course Outcome 1	**Learning Objectives for Course Outcome 1**
System Analysis	1.1 Understand the foundations of systems analysis 1.2 Understand ER diagrams and other modeling tools 1.3 Identify various tools to model systems 1.4 Evaluation systems and understand how they work 1.5 Gather requirements and examine the needs of various systems 1.6 Describe prototypes and system disruptions
Course Outcome 2	**Learning Objectives for Course Outcome 2**
System Data	2.1 Describe various data and their importance 2.2 Identify tools used to collect data 2.3 Describe useful data
Course Outcome 3	**Learning Objectives for Course Outcome 3**
System Design	3.1 Identify proper data output 3.2 Understand how data is collected 3.3 Identify proper layouts 3.4 Understand user experience and how it differs from user interfaces
Course Outcome 4	**Learning Objectives for Course Outcome 4**
System Evaluation, Implementation, and Maintenance	4.1 Understand the concepts of implementing a system after it has been analyzed and designed 4.2 Evaluate systems for their correctness and usefullness 4.3 Understand the importance of system maintenance

Evaluation Process and Grading System:

Evaluation Type	**Evaluation Weight**
Assignments	40%
Case Study	20%
Final Exam	20%
Midterm	20%

Date: August 11, 2023

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