EDISON STATE COLLEGE
Division of Health Professions

COMMON COURSE SYLLABUS

PROFESSOR: **OFFICE LOCATION:**

E-MAIL: **PHONE NUMBER:**

OFFICE HOURS: MONDAYS   **SEMESTER:**
                TUESDAYS
                WEDNESDAYS
                THURSDAYS
                FRIDAYS

I.   **HIM2210 Healthcare Information Systems – AS – 3 Credits**
        This course will explore the various information systems currently in use in the healthcare environment. An emphasis will be placed upon the selection, implementation, use and management of information systems in healthcare.

II.   **PREREQUISITES FOR THE COURSE:**
    - HIM1000 Introduction to Health Information Management
    - HIM1211 Electronic Health Records
    - CGS1100 Microcomputer Skills

    CO-REQUISITES: None

III.   **GENERAL COURSE INFORMATION:** Topic Outline

- Unit I: Health Care Information
    o   Introduction to Health Care Information
    o   Health Care Data Quality
    o   Health Care Information Regulations, Laws, and Standards
- Unit II: Health Care Information Systems
    o   History and Evolution of Healthcare Information Systems
    o   Current and Emerging Use of Clinical Information Systems
    o   System Acquisition
    o   System Implementation and Support
- Unit III: Information Technology
    o   Technologies that Support Health Care Information Systems
    o   Health Care Information System Standards
    o   Security of Health Care Information Systems
- Unit IV: Information Technology Challenges
    o   Organizing Information Technology Services

- o Alignment and Strategic Planning
- o Governance and Management
- o Management's Role in Major IT Initiatives
- o Assessing and Achieving Value in Health Care Information Systems
- o Health IT Leadership

IV.   LEARNING OUTCOMES AND ASSESSMENT:

GENERAL EDUCATION COMPETENCIES:
General education courses must meet at least four out of the five following outcomes. All other courses will meet one or more of these outcomes.

- *Communication (COM):* To communicate effectively using standard English (written or oral).
- *Critical Thinking (CT):* To demonstrate skills necessary for analysis, synthesis, and evaluation.
- *Technology/Information Management (TIM):* To demonstrate the skills and use the technology necessary to collect, verify, document, and organize information from a variety of sources.
- *Global Socio-cultural Responsibility (GSR):* To identify, describe, and apply responsibilities, core civic beliefs, and values present in a diverse society.
- *Scientific and Quantitative Reasoning (QR):* To identify and apply mathematical and scientific principles and methods.

ADDITIONAL COURSE COMPETENCIES:
At the conclusion of this course, students will be able to demonstrate the following additional competencies:

LEARNING OUTCOMES	ASSESSMENTS	GENERAL EDUCATION COMPETENCY
1. Use technology, including hardware and software, to ensure data collection, storage, analysis, and reporting of information.	Development of a database to collect information to meet state reporting requirements.	COM, CT, TIM
2. Apply policies and procedures to the use of networks, including intranet and Internet applications to facilitate the electronic health record (E.H.R.), personal health record (PHR), public health, and other administrative applications.	Policy development assignment, quiz, and exam.	COM, CT, TIM
3. Apply knowledge of data base architecture and design (such as data dictionary, data modeling, data warehousing) to meet departmental needs.	Creation of database for use in data collection for medical record abstracting project.	COM, CT, TIM
4. Use appropriate imaging technology for data/record storage.	Paper to image scanning project.	COM, CT, TIM
5. Query and generate reports to facilitate information retrieval.	Database report project.	COM, CT, TIM
6. Design and generate reports using appropriate software.	Database report project.	COM, CT, TIM

7.	Maintain archival and retrieval systems for patient information stored in multiple formats.	Review questions, quiz, exam.	COM, CT, TIM
8.	Coordinate, use and maintain systems for document imaging and storage.	Paper to image scanning project.	COM, CT, TIM
9.	Apply confidentiality and security measures to protect electronic health information.	Policy development assignment, quiz, and exam.	COM, CT, TIM
10.	Protect data integrity and validity using software or hardware technology.	Review questions, quiz, exam.	COM, CT, TIM
11.	Apply departmental and organizational data and information system security policies.	Policy development assignment, quiz, and exam.	COM, CT, TIM
12.	Use and summarize data from audit trail and data quality monitoring programs.	Audit trail exercises, quiz, and exam.	COM, CT, TIM
13.	Contribute to the design and implementation of risk management, contingency planning and data recovery procedures.	Policy development assignment, quiz, and exam.	COM, CT, TIM
14.	Participate in the planning, design, selection, implementation, integration, testing, evaluation, and support for organization-wide information systems.	Request for proposal project.	COM, CT, TIM

V.   DISTRICT-WIDE POLICIES

PROGRAMS FOR STUDENTS WITH DISABILITIES
Edison State College, in accordance with the Americans with Disabilities Act and the college's guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus.

Lee Campus	Taeni Hall S-116A	(239) 489-9427
Charlotte Campus	Student Services SS-101	(941) 637-5626
Collier Campus	Admin. Bldg. A-116	(239) 732-3918
Hendry/Glades Ctr.	LaBelle H.S.	(863) 674-0408

VI.   REQUIREMENTS FOR THE STUDENTS:

VII.   ATTENDANCE POLICY:

VIII.   GRADING POLICY:

IX.   REQUIRED COURSE MATERIALS:

X.   RESERVED MATERIALS FOR THE COURSE:

XI.   CLAST COMPETENCIES INVOLVED IN THIS COURSE.

XII.   CLASS SCHEDULE:

XIII.   <u>**OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:**</u>