



Information Systems Department

Course Syllabus

IS354 – Health Information Systems

Catalog Description: This course introduces the field of Health Information Systems. It helps students to understand Healthcare Medical and Business Processes from a Software Design Perspective, History of Health Information Systems, Healthcare Delivery Process, Healthcare Functions Supported by Hospital IT Departments, and Interaction between Healthcare and Business Data Domains, and Medical and Allied Health Professionals, Introduction of Electronic Health Record.

Credit Hours: 3 Credit hours: 2 Lectures per week 2 Labs. per week 0 Recitation per week

Prerequisites: IS335

Course Learning Outcomes:

1. Describe health data management and technologies to improve the quality, efficiency, equity and safety of healthcare
2. Describe appropriate use of enterprise-wide information assets related to quality, performance, or strategic management in healthcare systems
3. Explain standards, policies and technologies to protect data integrity and validity, including information privacy and security policies and procedures
4. Evaluate, implement and use information systems' tools, techniques, and methodologies applicable to the healthcare environment
5. Explain how metrics, such as healthcare informatics, data, or analytics, are used in the healthcare delivery system
6. Work effectively in groups and exercise leadership when appropriate
7. Present a topic in a compelling manner.
8. Take responsibility for their own learning and continuing personal and professional development

Major Topics:

- Introduction to the Healthcare Medical and Business Processes from a Software Design Perspective.
- History of Health Information Systems
- Healthcare Delivery Process
- Healthcare Functions Supported by Hospital IT Departments
- Interaction between Healthcare and Business Data Domains
- Medical and Allied Health Professionals
- Introduction of Electronic Health Record.
- Project Discussions



Information Systems Department

Course Syllabus

IS354 – Health Information Systems

Text Books: Essentials of Health Information Systems and Technology Pap/Psc Edition by Jean A Balgrosky , ISBN-13: 978-1284036114, ISBN-10: 1284036111.

Grading: Ⓞ The grading scale for this course is:

- 95 - 100 A+ Passing
- 90 - 94 A Passing
- 85 - 89 B+ Passing
- 80 - 84 B Passing
- 75 - 79 C+ Passing
- 70 - 74 C Passing
- 65 - 69 D+ Passing
- 60 - 64 D Passing
- 0 - 59 F Failing

Ⓞ Final grades will be determined based on the following components:

- . 60% Semester Work
- . 40% Final Exam

Ⓞ Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.

Ⓞ Late submissions will not be accepted for any graded activity for any reason.

Ⓞ Students have one week to request the re-grading of any semester work.

Attendance Policy: Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded “DN” grade and repeat the course.

Cheating and Plagiarism Policy: The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.



Information Systems Department

Course Syllabus

IS354 – Health Information Systems

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.

Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.