



Jordan University of Science and Technology
Faculty of Nursing
Nursing Department

NUR308 Health Informatics

Summer Semester 2019-2020

Course Catalog

2 Credit Hours. The purpose of this course, whereby part of it will be online, is to explain the origins, key components and current state of Health Informatics, which will take a national and international perspective. This course will introduce key issues and applications of Health Informatics at theoretical and applied levels. Students are left with knowledge and skills to examine existing practices and recommend change based on evidence and structured approaches. Emphasis will be placed on current ethical, cultural, and financial issues accompanying the increasing use of the health related internet applications by healthcare providers and consumers. Computer skills and Internet use will also be provided with emphasis on the use of EHR in healthcare system.

Text Book

Title	Handbook of Informatics for nurses and healthcare professionals.
Author(s)	Toni Lee Hebda & Patricia Czar
Edition	6th Edition
Short Name	Handbook of Informatics for nurses and healthcare professionals.
Other Information	

Instructor

Name	Dr. Anas Mohammad
Office Location	M5L4
Office Hours	
Email	aammhammad@just.edu.jo

Class Schedule & Room

Section 2:
Lecture Time: Mon, Wed : 12:30 - 14:30
Room: منصة الكترونية

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Orientation to course	Course syllabus From Handbook of Informatics for nurses and healthcare professionals.
Week 2	Introduction to Health Informatics & Informatics in Healthcare Professions	Ch. 1, 2 From Handbook of Informatics for nurses and healthcare professionals.
Week 3	Computer, Internet, and the World Wide Web: An Overview [Online Lecture]	Ch. 2, 4 From Handbook of Informatics for nurses and healthcare professionals.
Week 4	Microsoft Office & Email etiquette	
Week 5	Enterprise Healthcare Information Systems	Ch. 6, 14 From Handbook of Informatics for nurses and healthcare professionals.
Week 6	Health Information Systems Life Cycle (system selection, implementation, and evaluation)	Ch. 8, 10, 11 From Handbook of Informatics for nurses and healthcare professionals.
Week 7	Informatics in practice: Facility based (The Electronic Health Record) Guest Speaker from Hakeem	
Week 8	Informatics in practice: Community based application (Telehealth)	Ch. 25 From Handbook of Informatics for nurses and healthcare professionals.
Week 9	The Personal Health Record (PHR)	Ch. 16 From Handbook of Informatics for nurses and healthcare professionals.
Week 10	Informatics: challenges and Issues	Ch. 8 & 10 From Handbook of Informatics for nurses and healthcare professionals.
Week 11	Information Privacy, Security, and Confidentiality	Ch. 8 & 10 From Handbook of Informatics for nurses and healthcare professionals.
Week 12	Educational Informatics: e-Learning & Simulation in health education	Ch. 23 & (Simulation lab) From Handbook of Informatics for nurses and healthcare professionals.
Week 13	Educational Informatics: Mining the Literature: Database searches	Ch. 27 From Handbook of Informatics for nurses and healthcare professionals.
Week 14	Course review and wrap up	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Set up basic concepts healthcare informatics/nursing informatics [1COMP-1, 1NUR-1]	10%	
Understand the essential computer, Microsoft Office, email etiquette, and internet skills [1COMP-6, 1NUR-1]	10%	

Identify how health informatics applications can be used to improve health care delivery in health care organizations and in public health (i.e., EHR-Hakeem program, tele-health), education (i.e., e-leering and simulation), and research (i.e., databases) [1COMP-3, 1COMP-5, 1NUR- 3]	35%	
Analyze the important components of HIS systems design [1COMP-4, 1NUR- 4]	15%	
Acquire a theoretical framework on how to select, implement, and evaluate high-quality, safe, and cost-effective Health Information Systems in healthcare settings [1COMP-1, 1COMP-4, 1NUR- 4]	10%	
Understand the major principles needed for successful EHR change management [1COMP-2, 1NUR- 2]	10%	
Understand the value and importance of, and interpret solutions for, privacy, security, and confidentiality of Electronic Health Information [1COMP-6, 1NUR- 6]	10%	

Relationship to Program Student Outcomes (Out of 100%)											
NUR-1	NUR-2	NUR-3	NUR-4	NUR-5	NUR-6	COMP-1	COMP-2	COMP-3	COMP-4	COMP-5	COMP-6
10	5	11.67	10.83		5	8.33	5	11.67	10.83	11.67	10

Evaluation	
Assessment Tool	Weight
First Exam	25%
Second Exam	25%
Assignments (Database Search, NIH certificate, and Online discussion forum)	10%
Final Exam	40%

Policy

Policies	<p>Exam All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the instructor and the dean of the Faculty of Nursing</p> <p>Cheating Prohibited; and in case of cheating the student will be subject to punishment according to the student code of conduct regarding scientific property. Students need to review the Code of Student Conduct of Jordan University of Science & Technology Student Handbook for plagiarism and attendance policy.</p> <p>Attendance According to the university policy: Attendance is required for all lectures, and students must be on time. Student's absence and late is subjected to rules and regulations of the university. Excused or unexcused absence should not exceed 10% of the lectures hours. Unexcused absence will affect student's grade negatively. Late should be less than 10 minutes. A late that exceeds 10 minutes will report as an absent day. Two late are considered one absent.</p> <p>Participation Part of the course work, students should prepare and participate in the class</p> <p>Laboratory Some classes may be in nursing computer lab/ or simulation Lab</p> <p>Withdraw Should be according to the rules and regulation of the university</p> <p>Note Late assignments will have point deductions unless prior arrangements are made. Notify the instructor if you anticipate on missing classes or missing an exam for any emergency reasons.</p>
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