NUR 45100 Nursing Informatics

Course Information & Objectives

College of Nursing (CON) Contact Information

Course Description:

This course provides a basic understanding of nursing science, computer science, and information science to prepare students to effectively and efficiently use technology to identify, collect, process, and manage health care information. A focus on technology-based health applications which support clinical, administrative, research, and educational decision-making to enhance the efficacy of nursing is provided.

Course Pattern:
　　Lecture 03　Lab 00　Credit 03
Prerequisites/Co-requisites:
　　Phase I RNBSN Courses/NUR 39000

Course Objectives (Student Learning Outcomes):

1. Analyze the evolving roles and competencies of nursing informatics practice. (Aligns with Program Outcome #3, 7)

2. Describe how nursing science, computer science, and information science provide the foundation for nursing informatics. (Aligns with Program Outcomes #5, 6)

3. Detail procedures to secure electronic health information. (Aligns with Program Outcome #3, 5)

4. Demonstrate how computer systems are resource tools for managing information and generating knowledge for both clinical and administrative environments. (Aligns with Program Outcomes #5, 6)

5. Demonstrate an understanding of Nursing Informatics applications such as education, research, telehealth, clinical information management, project management, and consumer information. (Aligns with Program Outcomes #2, 5)

Student Learning Outcomes of Undergraduate Degree Nursing Program Options

1. Utilize the nursing process to implement principles of person centered care within the framework of basic human needs and life span development.

2. Demonstrate effective communication while collaborating therapeutically and effectively with healthcare system stakeholders.

3. Demonstrate professional leadership in the coordination of healthcare that minimizes risk, promotes safety, and manages resources by creating a culture of continuous quality improvement.

4. Implement the principles of evidence based nursing practice in policy development and the provision of person centered care in an evolving healthcare environment.
5. Utilize information technology to coordinate and support decision-making in the provision of person centered care.
6. Implement critical thinking strategies in the context of health promotion, health maintenance, health restoration and palliation to maximize optimal person centered health outcomes.
7. Exemplify professional values to include accountability for practice, and principles of altruism, autonomy, human dignity, integrity, social justice and ethics.

Assignments & Determination of Course Grade:

Week 1 Assignment 1 Digital Literacy Course

Navigate to the Microsoft Digital Literacy Course and complete these sections:
- Work with Computers
- Access information online
- Participate safely and responsibly online

Week 2 Assignment Nursing Informatics Competency Self-Evaluation

Using the QSEN Institute Competencies Table as a template, create an education plan to improve your current competencies in the three areas you feel are most important.

Week 3 Assignment Technology Proposal Project

The purpose of this assignment is to creatively express a proposal of how you could improve a manual process in your work environment with technology. You will submit this proposal in a video format using a creative electronic media reflecting the information from your Week 3 poster.

Course Schedule:

Refer to the course calendar for specific meeting dates and times. Activity and assignment details will be explained in detail within each week's corresponding learning module. The dates and learning topics are subject to change. If you have any questions, please contact your instructor.

Course Calendar:

Wk	Topic	Activities/Assignments/Due Dates
1	Background of Informatics	- Discussion initial post: **Due – Thursday** - Week 1 Assignment 1 – Digital Literacy Course: **Due – Sunday** - Week 1 Assignment 2 – Creative Technology Proposal Project Topic Submission: **Due – Sunday** - Discussion responses: **Due – Sunday**
2	Competencies and Roles	- Discussion initial post: **Due – Thursday** - Submit Week 2 Assignment –Nursing Informatics Competencies: **Due – Sunday** - Discussion responses: **Due – Sunday**

Wk	Topic	Activities/Assignments/Due Dates
3	Applications	• Discussion initial post: **Due – Thursday** • Submit Week 3 Assignment –Creative Technology Proposal Project Poster: **Due – Sunday** • Discussion responses: **Due – Sunday**
4	Current Issues	• Discussion initial post: **Due – Thursday** • Submit Week 4 Assignment 1–NIH Information Security, Counterintelligence and Insider Threat Privacy, Records Management, Emergency Preparedness: **Due – Sunday** • Submit Week 4 Assignment 2 –Creative Technology Proposal Project: **Due – Sunday** • Discussion responses: **Due – Sunday**
5	Future	• Discussion initial post: **Due – Tuesday** • Discussion responses: **Due – Friday**

Graded Course Activities:

Points	Descriptions
25	Weeks 1-5 – Discussions (10 pts each)
10	Week 1– Assignment 1: Digital Literacy Course
0	Week 1– Assignment 2: Creative Technology Proposal Project Topic Submission
15	Week 2 – Nursing Informatics Competencies
20	Week 3– Assignment: Create a Poster
10	Week 4 Assignment 1 – NIH Security Training Module
20	Week 4 Assignment 2 – Technology Project Proposal
100	**Total Points Possible**

Minimum Passing Standard

Upon completion of all required methods of evaluation, the student must have achieved an average score of 78% in the course.