Overview

In Informatics System Analysis and Design, a broad understanding of data systems is covered to build upon the Foundations in Nursing Informatics course. The importance of effective interoperability, functionality, data access, and user satisfaction are addressed. The student will be analyzing reports and integrating federal regulations, research principles, and principles of environmental health in the construction of a real-world systems analysis and design project. This course will be directly applicable to healthcare settings as electronic records management has become compulsory for healthcare providers. All of the information in this course will be directly tied to the delivery of quality patient care and patient safety.

Competencies

▲ **Effective versus Ineffective Informatics Systems**

The graduate evaluates informatics systems to distinguish effective from ineffective interoperability, functionality, data access, user satisfaction, and support of patient care quality and safety.

▲ **Analysis Reports for Impacts**

The graduate compiles the results of analysis reports to determine impact on healthcare consumers, families, communities, resources, networks, and healthcare organizations.

▲ **Key Data Elements in Systems Designs**

The graduate applies research principles to the inclusion of key data elements in systems designs in support of clinical evaluation and clinical processes research.

▲ **Regulations in Information Systems**

The graduate researches federal and other regulation in selecting information systems and projects in practice.

▲ **Ergonomics and Environmental Health**

The graduate evaluates principles of ergonomics and environmental health in the design and implementation of informatics projects in practice.

Learning

**Getting Started**

Informatics System Analysis and Design is a five-module course covering a variety of critical topics in data systems that are essential to know as an informatics professional in nursing. Knowledge gained in the Foundations in Nursing Informatics will be built upon as you explore key topics and use research applications to
including six VitalSource e-texts (directly embedded in the learning platform), YouTube and other videos and links to additional readings. Full instructions are provided as you encounter each of these resources in the learning platform. You are encouraged to participate in the Knowledge Checks to test your competency on key topics. Support is provided with a Pacing Guide and a course mentor is available to assist you. We recommend keeping an optional personal learning journal to increase your retention of the material and to assist with the transfer of knowledge to your future clinical setting. This personal learning journal can be an ongoing Word document or as simple as a paper notebook; it will not be assessed. Competencies for this course will be assessed by a performance assessment in which you will apply what you’ve learned to an example of a real-world scenario. Plan on spending approximately 1-2 hours on the content in addition to the text reading per module.

Cohort Sign–up

Cohorts provide additional structure and support for challenging aspects of this course. In a cohort you receive specific homework assignments and meet online with mentors and students regularly to discuss the challenging topics.

Assessments

Performance Assessment: Information System and Design

Status: Not Attempted
Code: EQP2

Course Information

The Writing Center
WGU Library
Accessibility Policy
Student Success Center
Statement of Nursing Dispositions
Course Instructor Responsibility

How to Work with Course Instructors

Announcements

Course Tips

Course Search