



# BAKER COLLEGE

## STUDENT LEARNING OUTCOMES

NUR5410 Informatics and Healthcare Technologies  
3 Quarter Hours

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### Student Learning Outcomes and Enabling Objectives

1. Explore the integration of information, information science, and information systems specific to nursing and healthcare.
  - a. Discuss effective mechanisms for acquiring, processing, and disseminating information.
  - b. Examine the historical trajectory of the discipline of information science.
  - c. Explore how knowledge is generated from processing trends in data.
  - d. Articulate definitions of cognitive science and cognitive informatics.
  - e. Identify key components regarding the science and practice of nursing informatics.
2. Analyze the legal, practical, and ethical implications of informatics and healthcare technologies.
  - a. Discuss the professional responsibilities for the ethical use of healthcare informatics technology.
  - b. Analyze the impact of information technologies on nursing practice.
  - c. Explore characteristics required of a knowledge worker.
  - d. Articulate the historical development of nursing informatics.
  - e. Identify competencies, specialized education, and certification for nursing informatics.
  - f. Investigate ethical dilemmas associated with nursing informatics.
3. Examine current and future applications of nursing informatics including practice, education, and research.
  - a. Discuss the importance of an e-portfolio.
  - b. Analyze the provisions of the HITECH Act and its implications for nursing practice.
  - c. Explore concepts of data mining and information dissemination of information systems common to healthcare organizations.
  - d. Articulate the difference between social networking and professional networking.
4. Identify mechanisms to improve patient outcomes through the use of informatics and healthcare technologies.
  - a. Discuss mechanisms for promoting community and population health through informatics and healthcare technologies.
  - b. Analyze the impact of human factors and informatics technology in preventing errors and promoting safe patient care.
  - c. Explore the concepts and constructs of a safety culture.
  - d. Articulate definitions, benefits, and barriers of technology in promoting health literacy and consumer education.
  - e. Explore the impact of telehealth technology in nursing practice.

5. Examine the impact of informatics and healthcare technologies to promote patient education, health, and safety.
    - a. Discuss effective measures to improve workflow and meaningful use.
    - b. Describe the components of and benefits associated with electronic health records.
    - c. Explore the human-technology interface and benefits/barriers associated with it.
    - d. Articulate mechanisms to secure networks through user authentication.
  6. Investigate emerging healthcare technologies and the potential to generate new nursing knowledge.
    - a. Review technologies used to educate nurses.
    - b. Appraise informatics tools and web-based databases to collect, process, and analyze data for purposes of nursing research.
    - c. Explore the art of caring in a technologically-advanced healthcare environment.
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## **Big Ideas and Essential Questions**

### **Big Ideas**

- Integration of information, information science, and information systems
- Informatics and healthcare technologies
- Current and future nursing informatics practices
- Emerging technologies

### **Essential Questions**

1. How do nursing informatics and technologies positively impact quality and safety in healthcare?
  2. How does the nurse use informatics and healthcare technologies to promote communication and education in patient care?
  3. How do current and emerging technologies impact nursing informatics practices?
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These SLOs are approved for experiential credit.

**Effective: Fall 2017**