

## Course Number and Title: NUR 410 Nursing Informatics

**Campus Location:**

Georgetown, Dover, Stanton

**Effective Date:**

2021-51

**Prerequisite:**

NUR 300

**Co-Requisites:**

none

**Course Credits and Hours:**

3.00 credits

3.00 lecture hours/week

0.00 lab hours/week

**Course Description:**

This course provides an introduction to nursing informatics and focuses on application to the nursing profession. Emphasis is placed on the integration of nursing practice and information sciences. Students analyze the impact of informatics on nursing practice and the healthcare system.

**Required Text(s):**

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

**Additional Materials:**

None

**Schedule Type:**

Online Course

**Disclaimer:**

None

**Core Course Performance Objectives (CCPOs):**

1. Evaluate information technologies that affect patient care practice using analysis and information literacy skills. (CCC 1, 2, 3, 5; PGC 1, 3, 4)
2. Analyze the design and impact of informatics in the healthcare system. (CCC 1, 2, 3, 5; PGC 1, 2, 3, 4, 5)
3. Evaluate ethical and legal issues within healthcare systems related to the use of information technology, communication networks, and patient care. (CCC 1, 2, 3, 4, 5; PGC 1, 3, 4, 8)
4. Explain the role of the nurse in using informatics to effectively communicate with the interprofessional team to deliver safe, quality care. (CCC 1, 2, 3, 4, 5; PGC 1, 2, 3, 4, 5, 6, 8)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

**Measurable Performance Objectives (MPOs):**

Upon completion of this course, the student will:

1. Evaluate information technologies that affect patient care practice using analysis and information literacy.
  1. Identify terminology, concepts, technology, and systems in the context of informatics.
  2. Analyze theories, principles, and concepts related to nursing informatics.
  3. Compare and contrast patient care processes that use information technology, and explain how the technology affects patient care delivery.
  4. Analyze the effectiveness of informatics in patient care processes.
  5. Use information literacy skills to evaluate information technologies.
  6. Examine and identify research that supports the use of patient care technology.
2. Analyze the design and impact of informatics in the healthcare system.
  1. Examine technological resources to guide evidence-based practice.
  2. Describe the impact of information technology on patient care delivery and the healthcare system.
  3. Analyze the design of clinical information systems and patient care technologies that promote safe, quality, and cost-effective care.
  4. Develop policy and procedure based on clinical evidence to improve the delivery of patient care through the evaluation of information technology.
3. Evaluate ethical and legal issues within healthcare systems related to the use of information technology, communication networks, and patient care.
  1. Identify ethical, legal, and security issues related to the use of information technology in healthcare systems.
  2. Analyze the benefits and challenges of communication networks in healthcare systems.
  3. Examine issues for regulation, accreditation, and security for healthcare applications.
4. Explain the role of the nurse in using informatics to effectively communicate with the interprofessional team to deliver safe, quality care.
  1. Discuss the use of patient care information technology to communicate effectively with the interprofessional team.
  2. Develop a plan that integrates information technology in the interprofessional communication process.

**Evaluation Criteria/Policies:**

The grade will be determined using the Delaware Tech grading system:

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
0	-	69	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

**Final Course Grade:**

Calculated using the following weighted average

Evaluation Measure	Percentage of final grade
<b>Formative Assessments:</b>	
Discussion Board 3 (10% each)	30%
<b>Summative Assessments:</b>	
Ethical & Legal Issues in Informatics Assignment (15%)	
Workflow Map Assignment (15%)	
Self-Reflective Journal (10%)	70%
Informatics Project (30%)	
<b>TOTAL</b>	<b>100%</b>

**Core Curriculum Competencies (CCCs are the competencies every graduate will develop):**

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

**Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):**

1. Integrate general education knowledge, skills, and aptitudes to advance nursing education and growth in professional practice.
2. Demonstrate leadership skills to promote patient safety and the delivery of high quality healthcare.
3. Apply skills of inquiry, analysis, and information literacy to support evidence-based professional nursing practice.
4. Integrate information management technology to improve patient outcomes.
5. Advocate for patients and the nursing profession with regard to healthcare policy at the local, state, national, and global levels.
6. Direct patient-centered care through advocacy, interprofessional communication, collaboration, and delegation.
7. Integrate health promotion and disease prevention practices to positively impact the delivery of healthcare to diverse populations.
8. Practice professional nursing within an ethical framework.
9. Demonstrate lifelong learning that empowers personal and professional growth.

**Disabilities Support Statement:**

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.