



Spring 2022

Course Number: NURS 5383
Sections: .060
Course Title: Applied Informatics: Quality, Safety and Cost

Course Faculty

See information in the Canvas syllabus page – faculty information redacted for web version

Instructor's Name:	
Office Address:	
Telephone:	
Preferred Email:	

Course Description

Provides foundational education in the role of informatics in assisting healthcare organizations, clinicians, and consumers to achieve the goals of (1) quality care, (2) reducing the cost of healthcare, (3) improving the health of populations while improving the experience of the clinician.

Course Credit and Clock Hours: 3 credit hours (3 clock hours per week)

Class Time: Primarily asynchronous. Any scheduled live web meetings will be recorded for those who cannot attend in real-time. The video software registers those students watching the video recording.

Nursing Organization Mappings

- American Association of Colleges of Nursing (AACN) MSN Essentials III, V
- Quality and Safety Education for Nurses (QSEN) Competencies: Quality Improvement, Safety & Informatics

Program Student Learning Objectives

At the completion of the MSN-IQS degree program, the graduate will be able to:

1. Integrate scientific knowledge and theories from nursing and related disciplines into advanced nursing practice;

2. Apply organizational and systems leadership principles and methods for the promotion and evaluation of quality, ethical, and safe patient care;
3. Translate, integrate, and disseminate scientific evidence into practice;
4. Utilize technologies to deliver, enhance, integrate, and coordinate communication, education, and patient care;
5. Intervene at the systems level through the policy development process and employ advocacy strategies to influence health care;
6. Manage care through collaboration with other health care professionals as a member and leaders of health care teams; and
7. Integrate organizational client-centered concepts to provide preventive and population-based care.

Course Learning Objectives

Upon successful completion of this course, the student will be able to:

1. Demonstrate foundational understanding of the quality improvement process and patient safety by completing the Institute for Healthcare Improvement Open School's Basic Certificate in Quality and Safety and completing/presenting the design of a quality improvement project. (SLO #2, 3, & 6)
2. Analyze patient scenarios using quality improvement methodologies. (SLO #2, 3, & 6)
3. Practice presentation skills and demonstrate mastery of presentation software during a presentation of quality improvement project. (SLO #4)
4. Analyze and document a clinical workflow. (SLO #1, 3, & 4)
5. Select and analyze population health data from a national database and recommend an action plan for health improvement. (SLO #5, & 7)

Required Textbooks

McGonigle, D. & Mastrian, K. G. (2021) *Nursing informatics and the foundation of knowledge 5th edition*. Burlington, MA: Jones & Bartlett Learning

ISBN: 9781284220469

This book is used in all four nursing informatics classes: NURS 5381, 5383, 5385, 5387. Used or Rental is acceptable – no requirement to use online resources.

Will be using Microsoft Office PowerPoint

Optional Textbooks

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7th ed.). Washington, D.C.: Author.

ISBN-13: 978-1433832161

ISBN-10: 143383216X

Course Schedule

- Census Date: January 10, 2022
- Mid-Term Exam: none
- Last Date to Withdraw: March 21, 2022
- Final Exam Date: none

Assignments

Exam and homework materials, questions, and problems are the intellectual property of faculty, UT Tyler, or publishers.

- These materials may not be distributed without permission.
- Distributing them or uploading them to online resources destroys the integrity of the assignment and the course, allowing others an unfair advantage by letting them view the materials.
- Uploading these materials to online resources is a violation of UT Tyler's academic misconduct policies and may result in formal conduct charges.
- Sanctions for uploading or otherwise divulging the contents of these materials can include:
 - a reduced or failing grade on an assignment
 - a reduced or failing grade for the course
 - removal from the Nursing program
 - removal from UT Tyler

Grades and Grading

- Specific guidelines and grading criteria for all assignments are in the Modules. Final grades for the course will be determined based upon the following point assignments:
- A - 90-100 B - 80-89 C - 70-79 D - 60-69 F - Below 60
- The weighted average of the graded assignments must be 80% or above to pass the course. All assignments should be submitted prior to the pre-determined due date, unless prior arrangements have been made with the course faculty and a new due date determined.
- **Late policy:** 5% may be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty.

Repeating a Course: Students repeating this course may not use previously submitted assignments nor utilize the same patients for an assignment. Submitting the same or slightly modified assignments from previous semesters is considered self-plagiarism and is subject to academic discipline, including failing the assignment or the course.

Attendance and Make-up Policy: Attendance / participation is expected. Make-up for exams, quizzes, assignments, clinical time missed is at the discretion of the instructor.

Criteria for Evaluation:	Percentage of Grade
Participation	5%
Discussions	20%
Required Webinars	20%
Application Assignments	25%
Toolkit Learning Assessment Exercises - PowerPoint	10%
Module Quizzes	20%
Total	100%

Calendar of Topics, Readings, and Due Dates

Based on the 2018 ANCC Test Plan for Certification in Nursing Informatics and the 2017 Healthcare Information and Management Systems Society (HIMSS) Certified Associate in Health Information and Management Systems (CAHIMS) Certification. Assignments may be based on current events in nursing informatics and are subject to change by instructors. See the end of this document for assignment names and date. Go to the Syllabus Page in Canvas for links.

Module Topics	Topics
Toolkit Competencies: Presentation Graphics Software Weeks 1-14	Presentation software
Module 1: Introduction, Objectives and Course Overview Week 1	Review of course requirements
Module 2 - Quality and Safety (IHI Certificate) Weeks 2-4	Institute for Healthcare Improvement Open School's Basic Certificate in Quality and Safety
Module 3 - Quality Measures, Methodologies & Outcomes Weeks 5-6	Failure Mode Effect Analysis Root Cause Analysis eCQI Using Core measures Quality Data Model/Clinical Quality Language Patient satisfaction surveys
Module 4 - Analysis & Change Weeks 7-8	Clinical workflow analysis process Value stream mapping Change Management experiences and theories
Module 5 - Caring & Technology Weeks 10-12	Technology Delivered Care Patient Education in a Connected World Community & Population Health
Module 6 - Healthcare Technology Trends Week 14	Current Technology Trends - Student Presentations

Academic Integrity

Students are expected to assume full responsibility for the content and integrity of all academic work submitted. Refer to the [School of Nursing Student Guide](#) sections on University Policies and Graduate School of Nursing Policies found in Canvas ORG-Mission: Possible for policies regarding conduct and

discipline. In any case of suspected academic misconduct, the [policies and procedures of the University](#) will be followed.

Assignments Turn-In Process

All assignments will be submitted through the “Assignments” tab or can also be submitted in the Modules tab in Canvas unless otherwise indicated. Please use the following process to prepare and submit assignments:

- Prepare your assignment using Microsoft Word unless otherwise directed.
- Access the “Assignments” tab (or in the Modules tab) and click on the Assignment link.
- If you need more instructions on “how-to” submit files through the assignment link, please read the Canvas Help for Students located in the Tools area.

Assignments are a major part of the course work and should receive appropriate attention. All assignments must meet the standards for graduate level work (spelling, punctuation, syntax, grammar, content, and most of all scholarliness). It is expected that all assignments will be completed in a **timely manner**, unless arrangements have been made by you and your faculty. Five percent or a given number of points based on the assignment rubric may be deducted each day an assignment is passed due unless prior arrangements have been made with your course faculty.

Written Assignments

Turnitin is a feature provided by Canvas that is designed to detect plagiarism or non-original student work. This feature is set up so that when you submit papers, they are automatically sent through Turnitin. The program checks your work against a comprehensive database of source material including previous students’ work and other papers and materials found on the web. An originality report will be generated that indicates the percentage of non-original material (text that matches existing sources) found in your paper. The purpose of using Turnitin in your course is to ensure you are writing original papers and to encourage you and all students to properly attribute all sources used.

All submitted written material (papers, assignments, examinations, etc.) are the property of the School of Nursing and will be maintained in an archived file at UT Tyler.

Participation Expectations and Discussions Assignments

- Each student participant is responsible for participating in the asynchronous discussions for each Discussions post. This participation will include posting answers to questions posed by the instructor and replying to other participants' postings.
- Discussion postings should be made in a timely manner. Deadlines are listed in the Course Schedule. Please note that all discussion main postings must be completed by 11:59pm Central Standard Time on the due date.
- Participants should plan on entering the Discussion area at least three times a week to read and comment on others' postings. Posting answers to the questions posed in the Discussion area should be done in advance of the deadline to allow other participants to have the opportunity to comment. The requirements for postings and responses to your peers are listed in each discussion assignment and may vary based on the discussion.

You may check your grades at any time on the Canvas website. Feedback on assignments will be provided via the gradebook.

Quizzes

Any quizzes are for your learning and to help you keep up your skills at completing multiple-choice exams as all certifications in informatics require timed multiple-choice examinations. Quizzes in this class will be open book and students will have multiple attempts with the highest score received by due date recorded.

Pre/Post Class Knowledge Assessment Survey

Each of the classes in the informatics program will have a pre/post knowledge assessment survey to assist the faculty in understanding your own perception of your knowledge growth during this course. Points are awarded for completion of both surveys not on the content of the survey. Completion of only one survey is not sufficient to obtain the indicated points.

12/2021 COVID Update:

“The COVID-19 situation continues to be fluid, with SON and university policies and procedures changing in response. Please keep apprised of the most recent updates through your SON program site in Canvas (faculty could put link here specific to BSN, MSN, DNP, Ph.D.) and the university website (<https://www.uttler.edu/coronavirus/>)”

Student Resources & University Policies

Updated Student Resources & University Policies and Information are available in the Canvas course Syllabus Module.