



Fall 2021

Course Number: NURS 5383
 Sections: .060 & .061
 Course Title: Applied Informatics: Quality, Safety and Cost

Course Faculty

Instructor's Name:	Cheryl D. Parker, PhD, MSN, RN-BC, CNE
Office Address:	BRB 2095 3900 University Blvd, Tyler, TX 75799
Telephone:	214-766-1326
Preferred Email:	cparker@uttyler.edu
Office Hours:	Fridays 2-5 pm See Canvas calendar for virtual office hours—one-on-one hours by appointment

	Adjunct Faculty
Instructor's Name:	Mike Eckhard, MSN, RN-BC, NEA-BC
Office Address:	
Telephone:	
Preferred Email:	meckhard@uttyler.edu

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 professional as a member and leader 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 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.

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

Special Course Notes

Will be using Microsoft Office PowerPoint

Course Schedule

- Census Date: September 10, 2021
- Mid-Term Exam: October 11-17, 2021
- Last Date to Withdraw: November 2, 2021
- Final Exam Date: December 5-11, 2021

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

Late Policy: 5% will be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty. Extenuating circumstances may apply.

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	10%
Quizzes (Modules)	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	Subject	Topics
	Toolkit Competency	Presentation software
1	Introduction, Objectives and Course Overview	
2	Quality and Safety	Institute for Healthcare Improvement Open School's Basic Certificate in Quality and Safety
3	Quality Measures, Methodologies & Outcomes	Failure Mode Effect Analysis Root Cause Analysis eCQI Using Core measures Quality Data Model/Clinical Quality Language Patient satisfaction surveys
4	Analysis & Change	Clinical workflow analysis process Value stream mapping Change Management experiences and theories
5	Caring & Technology	Technology Delivered Care Patient Education in a Connected World Community & Population Health
6	Healthcare Technology Trends	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 three 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.

School of Nursing Policies and Additional Information:

https://www.utt Tyler.edu/nursing/college/student_guide_and_policies.php

Student Resources to assist you in this course:

[UT Tyler Student Accessibility and Resource \(SAR\) Office](#) (provides needed accommodations to students with document needs related to access and learning)

[UT Tyler Writing Center](#)

[The Mathematics Learning Center](#)

[UT Tyler PASS Tutoring Center](#)

[UT Tyler Supplemental Instruction](#)

[Upswing \(24/7 online tutoring\) - covers nearly all undergraduate course areas](#)

[Robert Muntz Library \(Links to an external site.\)](#) and [Library Liaison](#)

[Canvas 101](#) (learn to use Canvas, proctoring, Unicheck, and other software)

Digital Support Toolkit (for supported courses only. Students are automatically enrolled in the toolkit for supported courses)

LIB 422 -- Computer Lab where students can take a proctored exam

[The Career Success Center](#)

[UT Tyler Testing Center](#)

[Office of Research & Scholarship Design and Data Analysis Lab](#)

Resources available to UT Tyler Students

[UT Tyler Counseling Center](#) (available to all students)

[TAO Online Support Center](#) (online self-help modules related to mental & emotional health)

[Military and Veterans Success Center](#) (supports for all of our military affiliated students)

[UT Tyler Patriot Food Pantry](#)

[UT Tyler Financial Aid and Scholarships](#)

[UT Tyler Registrar's Office](#)

[Office of International Programs](#)

[Title IX Reporting](#)

[Patriots Engage](#) (available to all students. Get engaged at UT Tyler.)

University Policies and Information

Withdrawing from Class: Students you are allowed to [withdraw](#) (drop) from this course through the University's [Withdrawal Portal](#). Texas law prohibits students who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at other 2-year or 4-year Texas public colleges and universities. Make sure to consider the impact withdrawing from this class has on your academic progress as well as the financial implications. We encourage you to consult your advisor(s) and financial aid for additional guidance. CAUTION #1: Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). CAUTION #2: All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms.

Final Exam Policy: Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members are required to maintain student final examination papers for a minimum of three months following the examination date.

Incomplete Grade Policy: If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average for a student.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to complete all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has not been assigned within one year, then the Incomplete will be changed to an F, or to NC if the course was originally taken under the CR/NC grading basis.

Grade Appeal Policy: UT Tyler's Grade Appeal policy requires the completion of a Grade Appeal form for this action to take place. The grade appeal begins with the instructor of your course. If you do not agree with the decision of the instructor, you may then move your appeal to the department chair/school director for that course. If you are still dissatisfied with the decision of the chair/director, you may move the appeal to the Dean of the College offering that course who has

the final decision. Grade appeals must be initiated within sixty (60) days from the date of receiving the final course grade. The Grade Appeal form is found on the [Registrar's Form Library](#).

Disability/Accessibility Services: The University of Texas at Tyler has a continuing commitment to providing reasonable accommodations for students with documented disabilities. Students with disabilities who may need accommodation(s) in order to fully participate in this class are urged to contact the Student Accessibility and Resources Office (SAR) as soon as possible to explore what arrangements need to be made to ensure access. If you have a disability, you are encouraged to visit the [SAR Portal \(https://hood.accessiblelearning.com/UTTyler/\)](https://hood.accessiblelearning.com/UTTyler/) and complete the New Student Application. For more information, please visit the [SAR webpage](#) or call 903.566.7079.

Military Affiliated Students: UT Tyler honors the service and sacrifices of our military affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with me if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make me aware of any complications as far in advance as possible. I am willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. Campus resources for military affiliated students are in the [Military and Veterans Success Center \(MVSC\)](#). The MVSC can be reached at MVSC@uttyler.edu, or via phone at 903.565.5972.

Academic Honesty and Academic Misconduct: The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

FERPA: UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements in protecting your confidential information.

COVID Guidance

Information for Classrooms and Laboratories: Students are required to wear face masks covering their nose and mouth, and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by [Procedures for Fall 2020 Return to Normal Operations](#). The UT Tyler community of Patriots views adoption of these practices consistent with its [Honor Code](#) and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class and should stay at home and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu.

Recording of Class Sessions: Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other
















information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

Absence for Official University Events or Activities: This course follows the practices related to approved absences as noted by the Student Manual of Operating Procedures ([Sec. 1 -501](#)).

Absence for Religious Holidays: Students who anticipate being absent from class due to a religious holiday are requested to inform the instructor by the second class meeting of the semester.

Campus Carry: We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.

Course Summary:

Date	Details	Due
Mon Aug 30, 2021	 N5381_5383_5389 Orientation	7pm to 8:30pm
Tue Aug 31, 2021	 Webinar Course Orientation Webinar - Live Tuesday, 8/31/21 at 8 pm CT OR Watch Recording	due by 8pm
Thu Sep 2, 2021	 Webinar NIOS Program Orientation (Optional) - Live Thursday, 9/2/21 at 8 pm CT OR Watch Recording	due by 8pm
	 Class Introductions - by Video	due by 11:59pm
Fri Sep 3, 2021	 NIQS Office Hours	2pm to 4pm
	 Presentation Software Skills Pre-Assessment Survey	due by 11:59pm
Sun Sep 5, 2021	 "Getting to Know You" Logistics Questionnaire	due by 11:59pm
	 Nursing Student Forms- Graduate	due by 11:59pm
	 The RISE Model - Giving Peer-to-Peer Feedback...and reflecting on your own work.	due by 11:59pm
Fri Sep 10, 2021	 NIQS Office Hours	2pm to 4pm
Sun Sep 12, 2021	 GCF 1 PPT Basics Units 1-4	due by 11:59pm
	 IHI Check-in Post #1	due by 11:59pm
Fri Sep 17, 2021	 NIQS Office Hours	2pm to 4pm
Sun Sep 19, 2021	 GCF 2 PPT Working with Slides Units 5-12	due by 11:59pm
	 IHI Check-in Post #2	due by 11:59pm
Fri Sep 24, 2021	 NIQS Office Hours	2pm to 4pm

Sun Sep 26, 2021	 DB#1 Institute for Healthcare Improvement Open School's Basic Certificate in Quality and Safety	due by 11:59pm
	 IHI Certificate Submission	due by 11:59pm
Wed Sep 29, 2021	 DB #2 Sentinel Event Analysis - Thinking Outside the Box!	due by 11:59pm
Fri Oct 1, 2021	 NIQS Office Hours	2pm to 4pm
Sun Oct 3, 2021	 GCF 3 PPT Text and Objects Units 13-19	due by 11:59pm
Tue Oct 5, 2021	 Webinar - QI Tools Live 10/6/20 at 7 pm CT OR watch the Video	due by 7pm
Wed Oct 6, 2021	 DB#3 Value Based Healthcare	due by 11:59pm
Fri Oct 8, 2021	 NIQS Office Hours	2pm to 4pm
Sun Oct 10, 2021	 GCF 4 PPT More Objects Units 20-24	due by 11:59pm
Fri Oct 15, 2021	 NIQS Office Hours	2pm to 4pm
Sun Oct 17, 2021	 Mid-Term Quiz	due by 11:59pm
Fri Oct 22, 2021	 No Office Hours this week - call for appointment	2pm to 4pm
Fri Oct 29, 2021	 NIQS Office Hours	2pm to 4pm
Sun Oct 31, 2021	 GCF 5 PPT Collaboration and Reviewing Units 25-27	due by 11:59pm
	 Module 4 - Application Assignment: Clinical Workflow Analysis	due by 11:59pm
Fri Nov 5, 2021	 NIQS Office Hours	2pm to 4pm
Fri Nov 12, 2021	 NIQS Office Hours	2pm to 4pm
Sun Nov 14, 2021	 GCF 6 PPT Customizing Your Presentation Units 28-33	due by 11:59pm
Wed Nov 17, 2021	 DB #4 Technology & COVID-19	due by 11:59pm

Thu Nov 18, 2021	 Webinar Presentation Graphic Skills Live 11/19/20 at 7-8:30 pm pm CT OR watch the Video	due by 7pm
Fri Nov 19, 2021	 NIQS Office Hours	2pm to 4pm
Wed Dec 1, 2021	 Module 6 - Application: Pulling it Together: Patient Engagement, Community Health and Reimbursement	due by 11:59pm
Fri Dec 3, 2021	 NIQS Office Hours	2pm to 4pm
Sun Dec 5, 2021	 DB#5- Providing Feedback on your Peers' Videos from Assignment #3	due by 11:59pm
	 Presentation Software Skills Post-Assessment Survey	due by 11:59pm
Sat Dec 11, 2021	 DB#6: Reflection on Learnings	due by 11:59pm
	 Final Quiz	due by 11:59pm