



Fall 2021

Course Number: NURS 5389 / 5399*
Course Title: Informatics, Quality & Safety Capstone
includes 112.5 and 200 clinical hours option for Informatics,
Quality & Safety Practicum

*5399 course number if course is taught as an independent study course

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:	NIQS Fridays 2-4 pm DNP Monday 7-8 pm One-on-one hours by appointment

Course Description

This course is focused on demonstrating critical thinking, self-direction, and competency in the skills needed by healthcare informatics professions entering the profession. Using students' learning from the prerequisite courses, a series of real-world work products will be created based on unfolding case studies using simulated data sets. Students will work in one or more consulting team(s) however; a portfolio of their individual work will be created as exemplars for the future.

Course Credit and Clock Hours: 3 credit hours (3 clock hours per week) plus either 112.5 or 200 of competency-based practicum hours. Students must provide a time/activity log documenting a minimum of 112.5 hours to successfully complete this course.

Class Time: Primarily asynchronous in Canvas Learning Management System; Student will keep a time/activity log of all activities and provide a weekly status report to their instructor/mentor using a provided template.

Prerequisites: NURS 5381, NURS 5383, NURS 5385, NURS 5387 unless otherwise approved by program coordinator.

Instructor Information: See Canvas

Nursing Organization Mappings

- American Association of Colleges of Nursing (AACN) MSN Essentials V
- Quality and Safety Education for Nurses (QSEN) Competencies: 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 critical thinking and self-direction required as an informatics professional. (SLO #1 & 2)
2. Demonstrate advanced data analysis skills (SLO #1 & 3)
3. Working in a consultant model, complete competency skill projects when provided with case scenarios. (SLO #1 & 6)
4. Write a business report of each project including an executive summary. (SLO #2 & 4)
5. Present a summary of their project in webinar format. (SLO #2)
6. Provide constructive feedback to their peers. (SLO #4 & 6)

Required Textbooks/Materials

Hacker & Sommers (2021). *A Writer's Reference*. Macmillian Publishing.

NOTE: Rental may not come with Achieve access which you must have. Rental is not recommended.

Achieve for *A Writer's Reference* (1-Term Online) includes ebook copy of *A Writer's Reference* you can access only during the subscription period. ISBN: 9781319333058

OR

Loose-leaf Version of *A Writer's Reference* with Exercises 10e & Achieve for *A Writer's Reference* 10e (1-Term Access) The loose-leaf version is hole punched and ready to be put in a standard three ring binder. ISBN: 9781319437251

OR

Bound copy of *A Writer's Reference with Exercises 10e & Achieve for A Writer's Reference 10e* (1-Term Access) ISBN: 9781319447595

All students will need **In Place clinical placement** subscription and **EHR Go subscriptions**. If you already have these subscriptions which covers your time in this class, you are good to go. If not, you need to purchase one through the UT Tyler Bookstore or directly from the vendor.

InPlace Subscription

InPlace clinical placement/record of hours. Subscription available from UT Tyler Bookstore or from vendor at <https://uttyler-us.inplacesoftware.com/signon/account/login?returnUrl=%2Fsignon%2F>

EHR Go subscriptions

EHR Go – academic electronic health record subscription. Subscription available from UT Tyler Bookstore or from vendor at <https://web21.ehrgo.com/register> you will receive the Program Key at Course Orientation in Week 1.

Recommended Textbooks/Materials

Depending on selected experiential learning by each student. Do not order any books in this section until individual competency plan has been developed:

For advanced Excel Data Analysis:

McFedries, P. (2018) *Excel Data Analysis For Dummies*.

ISBN 10 – 1119518164

ISBN 13 – 978-1119518167

For advanced Data Visualization:

Kusleika, D. (2021) *Data Visualization with Excel Dashboards and Reports*

ISBN 10 – 1119698723

ISBN 13 – 978-1119698722

For advanced healthcare data analysis skills:

White, S. (2021) *A Practical Approach to Analyzing Healthcare Data*, 4th Edition, AHIMA Press.

ISBN #: 9781584267799

For advanced statistical computation skills:

White, S. (2019) *Calculating and Reporting Healthcare Statistics*, 6th edition, AHIMA Press.

ISBN-13: 978-1584266839 ISBN-10: 158426683X

Course Schedule

- Census Date: September 10, 2021
- Mid-Term Exam: none
- Last Date to Withdraw: November 2, 2021

Final Exam Date: none Course Topics

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
1	Introduction, Objectives and Course Overview – Competency Plan Developed
2	Quality (Required)
3	Safety (Required)
4	Nursing Informatics - Data Analysis Case Studies (Required)
5	Writing Skills for Informatics Nurse Specialists (Required)
6	Personalized Clinical Experience
7	Optional Opportunities (based on individual experience needs)

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

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%
Required Webinars	10%
Required Clinical Informatics, Quality & Safety Activities (EHR Go)	25%
Required Writing Skills for the Informatics Nurse Specialist	25%
Time/Activity Log with Status Reports (In Place)	10%
Achievement of 112.5 clinical hours	15%
Final Reflection	10%
Total	100%

Clinical Hours

Students must obtain the required 112.5 hours to successfully pass this course. Students wishing to meet the current eligibility to sit the ANCC Informatics Nursing certification exam must obtain a minimum of 200 clinical hours. Planning for individual clinical informatics experiences will take place in Week 1 of the course.

Military Affiliated Students

I honor 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 my 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.

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 Assignments

Course Assignments in this course are a combination of simulation assignments for a variety of informatics skills and a onsite clinical experience all of which lead to clinical hours. Simulation assignments must be completed which a minimum of 80 out of 100 points (80%) to be counted as clinical hours.

Course Summary:

Date	Details	Due
Tue Aug 31, 2021	 Webinar #1 Dr. Cheryl's Orientation Webinar - Live Monday, 8/31/21 at 7-8pm CT OR Watch Recording	due by 7pm
Fri Sep 3, 2021	 NIQS Office Hours	2pm to 4pm
Sun Sep 5, 2021	 Nursing Student Forms- Graduate	due by 11:59pm
	 Individualized Plan for Completion of Clinical Hours	due by 11:59pm
Fri Sep 10, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 2 Get Together & InPlace Entry	due by 8:30pm
Fri Sep 17, 2021	 NIQS Office Hours	2pm to 4pm
Fri Sep 24, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 4 Get Together & InPlace Entry	due by 8:30pm
Fri Oct 1, 2021	 NIQS Office Hours	2pm to 4pm
Fri Oct 8, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 6 Get-Together & InPlace Entry	due by 8:30pm
Tue Oct 12, 2021	 Webinar: Mid-term Check-in & Getting Ready for Informatics Nursing and other Certifications - Live October 12, 2021 7-8:30pm CT OR Video	due by 10:12pm
Fri Oct 15, 2021	 NIQS Office Hours	2pm to 4pm
Fri Oct 22, 2021	 No Office Hours this week - call for appointment if you need me	2pm to 4pm
	 Week 8 Get-Together & InPlace Entry	due by 8:30pm
Fri Oct 29, 2021	 NIQS Office Hours	2pm to 4pm

Fri Nov 5, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 10 Get-Together & InPlace Entry	due by 8:30pm
Fri Nov 12, 2021	 NIQS Office Hours	2pm to 4pm
Fri Nov 19, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 12 Get-Together & InPlace Entry	due by 8:30pm
Fri Dec 3, 2021	 NIQS Office Hours	2pm to 4pm
	 Week 14 Get-Together InPlace Entry FINAL	due by 8:30pm
Sun Dec 5, 2021	 Nursing Informatics in the Community (Required)	due by 11:59pm

Sat Dec 11, 2021

 Applied Data Analytics 2 of 5 Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Applied Data Analytics 3 of 5 Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Clinical Reminder Data Visualization 5 of 5 - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Data Cleansing-Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Discussion: Reflection on Learnings - After you complete your Practicum Hours!	due by 11:59pm
 Orientation to Data Analytics 1 of 5 - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Orientation to Data Visualization 4 of 5 Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Quality Improvement with the EHR - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Query - Advanced Orientation - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Query - Adverse Drug Events - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Interactive Data Dashboard	due by 11:59pm
 Patient Safety Analysis - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Q-Statistical Analysis Self-Grading Quiz	due by 11:59pm
 Query - Local Mortality Data - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Query - Readmission Analysis - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Query Basic Orientation - Instructions & Self-Grading Quiz (Required)	due by 11:59pm
 Query-Pneumonia Outcomes - Instructions & Self-Grading Quiz (Required)	due by 11:59pm

Updated July 31, 2021