



NURS 5383

Applied Informatics: Quality, Safety and Cost

Fall 2022

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Office Hours: Virtual Office Hours Friday 2-5PM CST and by appointment. Please email faculty for the Zoom link.

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.

Prerequisites: None.

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.

Student Learning Outcomes:

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.
2. Analyze patient scenarios using quality improvement methodologies.
3. Practice presentation skills and demonstrate mastery of presentation software during presentation of quality improvement project.
4. Analyze and document a clinical workflow.
5. Select and analyze population health data from a national database and recommend an action plan for health improvement.

Required Textbooks and Readings:

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.

American Nursing Association. (2022). *Nursing informatics: Scope: and standards of practice* (3th ed.). Silver Springs, MD: Author. ISBN: 1953985009

For students taking this course as an elective - the Nursing Informatics: Scope and Standards of Practice is **NOT** required. Alternative materials will be made available in class when needed.

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

Assignments and Weights/Percentage/Point Values

Criteria for Evaluation:	Percentage of Grade
Participation	5%
Discussions	20%
Required Webinars	20%
Completion of the Institute for Healthcare Improvement Open School's Basic Certificate in Quality and Safety includes three required check-in discussions	20%
Toolkit Learning Assessment Exercises	10%
Application Assignments	15%
Quizzes (mid-term and final)	10%
Total	100%

Grading Scale:

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

Grades will not be rounded when calculating the average (79.5 is not rounded to 80, and 89.5 is not rounded to 90). Students are required to achieve an average of 80% (B) to complete the course successfully.

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% 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, and missed clinical time is at the instructor's discretion.

Graded Course Requirements Information:

The following is an overview of the major graded assignments. Detailed information will be provided in class.

The toolkit competencies are focused on student's development of expert-level competencies in the Microsoft Office applications which is a foundational skill for an informatics nurse specialist. This course focuses on Microsoft PowerPoint. These skills will be assessed in learning assessment exercises (10%) then applied in two assignments (25%).

Each module will have a Assess Your Understanding quiz. The module assessment may be taken as many times as you wish. There is no time limit to each attempt however, there is no save and return function. A minimum of 80 out of 100 possible points for successful completion. These assessments are worth 10%

Discussion Boards (10%) and webinars (20%) cover topics of importance in nursing informatics and may be conducted by faculty or guest speakers.

Students will compete the IHI Basic Certificate in Healthcare Quality and Safety during this course (20%).

Group Member Feedback and Grading

For group projects, the instructor may allow for members to provide feedback on contributions and work effort of other group members. This feedback may be taken into account in issuing individualized grades for group projects. In other words, the input of your group members may positively or negatively affect your grade on these projects.

Calendar of Topics, Readings, and Due Dates:

This course is 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.

Module	Subject	Dates	Topics
	Toolkit Competency	Aug 29-Dec 4, 2022	Presentation software
1	Introduction Week 1	Aug 29-Sept 4, 2022	Introductions, Overview, Objectives & Assessments
2	Quality and Safety – Weeks 2-4	Sept 5-25, 2022	Institute for Healthcare Improvement Open School’s Basic Certificate in Quality and Safety
3	Quality Measures, Methodologies & Outcomes Weeks 5-6	Sept 26 -Oct 9, 2022	Failure Mode Effect Analysis Root Cause Analysis eCQI Using Core measures Quality Data Model/Clinical Quality Language Patient satisfaction surveys
4	Analysis & Change Weeks 7-9	Oct 10-23, 2022	Clinical workflow analysis process Value stream mapping Change Management experiences and theories
5	Populations & Informatics Weeks 10-12	Oct 24-Nov 13, 2022	Technology Delivered Care Patient Education in a Connected World Community & Population Health
	Week 13 – Fall Holiday	Nov 21-27, 2022	
6	Caring & Healthcare Technology Trends	Nov 28-Dec 4, 2022	Current Technology Trends - Student Presentations
	Wrap up and Finals Week 15	Dec 5-10, 2022	Presentation Software Skills Post-Assessment Survey DB: Reflection on Learnings

- Census Date: September 9, 2022
- Last Date to Withdraw: November 7, 2022

School of Nursing Policies and Additional Information:

https://www.uttyler.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](#)

[Robert Muntz Library](#) 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](#) (support 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 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/>) 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: The UT Tyler community of Patriots respects the rights of others to wear a mask if they desire to do so. COVID guidelines may change as the situation warrants, and students should follow the instructions warranted by the situation.

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.utt Tyler.edu/about/campus-carry/index.php>.