



Health Care Informatics
NURS 5324
Spring 2024

Scheduled Class Days and Times: Online

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Office Hours: Virtual Office Hours: Wednesdays: 10 a.m. – 1 p.m. CST and available via appointment, email, conference call, and/or Zoom.

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Course Description: This course prepares the student to utilize informatics and health care technologies in the management of individuals, groups and organizations for the improvement of patient outcomes.

Prerequisite: Admission to any MSN program or enrolled in the PhD in Nursing program.

Student Learning Outcomes:

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

1. Analyze current and emerging technologies to optimize safety, cost effectiveness and health outcomes.
2. Utilize select theories that guide the application of informatics in health care and health education.
3. Promote policies that incorporate ethical principles and legal standards in the use of health information and technologies.

Required Textbooks and Readings:

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7th ed.). Washington, D.C.: Author. ISBN: 9781433832161

McGonigle, D., & Mastrian, K. G. (2021). *Nursing informatics and the foundation of knowledge* (5th edition). Burlington, MA: Jones & Bartlett. ISBN: 9781284220469

Assignments and Weights/Percentage/Point Values:

1. Application: Role Specific Data Analysis (Excel Part 1 & 2)	25%
2. Current Innovation Assignment	25%
3. Getting Started Assignments/Participation	12.5%
4. Final Quiz	12.5%
5. Big Data Assignment	25%
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 successfully complete the course.

Although the university policy allows 60 days for grade appeals, the School of Nursing follows a stricter timeline of 10 days to facilitate students' timely progression through the curriculum. In the case of extenuating circumstances, please consult the Associate Dean of Academic Affairs for guidance.

Academic Integrity: Cheating of any kind, as defined in Section 8 of the UT Tyler Manual of Policies and Procedures (MOPP) for Student Affairs (<https://www.uttyler.edu/mopp/>), will not be tolerated. Consequences may include:

- reprimand
- exam failure
- course failure
- expulsion from the Nursing program
- expulsion from the University
- other consequences as assigned

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.

Graded Course Requirements Information:

- **Application: Role Specific Data Analysis:** Data Analysis Assignment #1: Students will learn how to use spreadsheets, an important skill for all nurse leaders. Data Analysis Assignment #2: Students will learn more advanced data analysis building on the knowledge and skills from Data Analysis #1. Select a data set that reflects your program of study (nurse executive, educator, and practitioner). Microsoft Excel will be used for all analyses.
- **Current Innovation Assignment and Discussion:** Identify a current health care technology, summarize, and examine the pros and cons of the innovation (consider cost effectiveness and health outcomes, etc.). Use strengths to select members of an interdisciplinary team as an evaluation team. Instructions and grading criteria are posted. Post your current innovation link, read all peers’ posts, post a thought provoking question to one of your peers, and respond to your peers’ question(s).
- **Getting Started Assignments/Participation:** Introductions (Part 1 & 2), APA Quiz, Graduate Affirmation Forms Quiz, and Attestation: Personal Digital File Download, and “Getting to Know You” Student Information Questionnaire.
- **Final Quiz:** The final quiz will serve as an assessment of the course materials and assigned readings. Quiz blueprint is posted.
- **Big Data Assignment (Article, Discussion, and Paper):** This is a three-part assignment: Part 1: Students will write a scholarly paper, following APA writing style, summarize information from an assigned documentary, identify and synthesize the evidence from a scholarly article, and discuss key ethical principles. Part 2: Post article. Part 3: Read all peer postings and respond to a minimum of two peers.

Please Note: Detailed information and instructions along with grading rubrics for all assignments will be provided in the Canvas course.

Important Course Dates:

Classes Begin: January 11, 2024

Census Date (withdraw without penalty): January 17, 2024

Last Date to Withdraw: February 14, 2024. Students please notify your course faculty and contact your advisor.

Course Schedule for NURS 5324 – Health Care Informatics

Spring 2024

Dates	Topics	Readings	Assignments
Preview Days: January 11 – 13	Welcome to the preview days for the NURS 5324 – 7 week course!	Review Getting Started Module	The Canvas course is open and ready for viewing.
Week 1: January 14 9/15 (Monday): Martin Luther King, Jr. Holiday	Welcome to the first week of the semester! Module 1. Building Blocks of Nursing Informatics	Chapters 1, 2, & 7 Class Notes	Due Sunday, January 21th: Module - Getting Started: <ul style="list-style-type: none"> • Introductions (Part 1 & 2) • APA Quiz • Graduate Affirmation Forms Quiz • Attestation: Personal Digital File Download • “Getting to Know You” Student Information Questionnaire Module 1: <ul style="list-style-type: none"> • Data Analysis Skills Pre-Assessment Survey
Week 2: January 21	Module 2. Data Analysis Skills & Cognitive Science, Ethics, and Legislative Aspects	Chapter 4, 5, & 8 Class Notes	Due Sunday, January 28th: <ul style="list-style-type: none"> • Data Analysis Skills Part 1 Assignment (Part 1, A & B) and Quiz
Week 3: January 29	Module 3. Informatics in Health Care Education	Chapter 19 & 20	Due Sunday, February 4th: <ul style="list-style-type: none"> • “Current Innovation” Assignment & Discussion <ul style="list-style-type: none"> ○ Upload your Current Innovation link ○ Post Original Post for Current Innovation Due Wednesday, February 7th: <ul style="list-style-type: none"> • Post Peer Response for Current Innovation
Week 4: February 5	Module 4: Data Analysis Skills	Online Resources in Modules	Due Sunday, February 11th: <ul style="list-style-type: none"> • Role Specific Data Analysis Skills (Part 2, A & B) Assignment and Quiz • Role Specific Data Analysis Skills Part 2 Post-Assessment Survey

Dates	Topics	Readings	Assignments
Week 5: February 12 February 14th – Last day to withdraw from course	Module 5: Data Analysis Skills & Administrative & Research Applications of Nursing Informatics	Chapters 9, 10, 21 & 23 Class Notes	Due Wednesday, February 21st: <ul style="list-style-type: none"> • Post Original Post: Your article for Big Data Due Sunday, February 25th: <ul style="list-style-type: none"> • Big Data Paper: <ul style="list-style-type: none"> ○ Upload your paper in the Online Gradebook ○ Read the Big Data Articles posted by your peers ○ Post Peer Responses: Respond to a minimum of two of your peers' articles
Week 6: February 19	Module 6. Nursing Informatics Practice Applications: Care Delivery	Chapter 14, 15, & 18 Class Notes	
Week 7: February 26	Modules 7: The Future of Informatics	Chapter 24, 25, & 26	<ul style="list-style-type: none"> • Final Quiz due Wednesday, February 28th

*All assignments, quizzes, and exams are due on or before midnight (Central Time) of the assigned date.

School of Nursing Policies and Additional Information:

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

Student Resources and University Policies are provided in Canvas.