



Health Care Informatics
NURS 5324
Summer 2024

Scheduled Class Days and Times: Online

Instructor's Name: Melinda Hermanns, PhD, RN, PMH-BC, CNE, PN/FCN, ANEF (Section: P61 & P62)

Office: Virtual

Phone: (903) 566-7320

Email: mhermanns@uttyler.edu*

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

*Best way to contact me.

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. (2024). *Nursing informatics and the foundation of knowledge* (6th edition). Burlington, MA: Jones & Bartlett. ISBN: 9781284293432

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: May 13, 2024

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

Memorial Day Holiday: May 27, 2024

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

Course Schedule for NURS 5324 – Health Care Informatics

Summer 2024

Dates	Topics	Readings	Assignments
Week 1: May 13	Welcome to NURS 5324 – 7 week course! Module 1. Building Blocks of Nursing Informatics	Review Getting Started Module Chapters 1, 2, & 7 Class Notes	Due Wednesday, May 15th: <ul style="list-style-type: none"> • Graduate Affirmation Forms Quiz • Attestation: Personal Digital File Download Due Sunday, May 19th: Module - Getting Started: <ul style="list-style-type: none"> • Introductions (Part 1 & 2) • APA Quiz • “Getting to Know You” Student Information Questionnaire Module 1: <ul style="list-style-type: none"> • Data Analysis Skills Pre-Assessment Survey
Week 2: May 20	Module 2. Data Analysis Skills & Cognitive Science and Informatics, Ethical Applications, and Legislative Aspects	Chapter 4, 5, & 8 Class Notes	Due Sunday, May 26th: <ul style="list-style-type: none"> • Data Analysis Skills Part 1 Assignment (Part 1, A & B) and Quiz • Role Specific Data Analysis Skills Part 1 Post-Assessment Survey
Week 3: May 28 May 27 th Memorial Day Holiday	Module 3. Education Applications of Nursing Informatics	Chapter 19 & 20	Due Sunday, June 2nd: <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, June 5th: <ul style="list-style-type: none"> • Post Peer Response for Current Innovation
Week 4: June 3	Module 4: Data Analysis Skills	Online Resources in Modules	Due Sunday, June 9th: <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: June 10 June 14th – Last day to withdraw from course	Module 5: Nursing Informatics Administrative & Research Applications of Nursing Informatics	Chapters 9, 10, 21 & 23 Class Notes	Begin locating your Big Data article, re-review the APA and plagiarism review in the Getting Started module, and complete the APA review in Module 5 in preparation for Big Data paper.
Week 6: June 17	Module 6. Nursing Informatics Practice Applications: Care Delivery	Chapter 14, 15, & 18 Class Notes	Due Wednesday, June 19th: <ul style="list-style-type: none"> • Initial Post: Post your article for Big Data Due Sunday, June 23rd: <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 7: June 24	Modules 7: Imagining the Future of Informatics	Chapter 24, & 25	Due Wednesday, June 26th: <ul style="list-style-type: none"> • Final Quiz

*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.