

#### Healthcare Informatics NURS 6303 Summer 2025 Flex Session 1 Scheduled Class Days and Times: Online

Instructor's Name: Joni L. Watson, DNP, MBA, RN, OCN Office: Virtual Phone: 903-242-8530 Email: joniwatson@uttyler.edu (best method of communication) Virtual Office Hours: Virtual office hours are weekly 1300-1600 CDT by appointment for phone call or video conference. Additional days and times may be arranged upon request. Please email me to make arrangements.

#### **Course Description**

Exploration of data management systems needed to manage patient, systems, and research information is the focal point of this course. Students will develop their data analysis and visualization skills with hands-on practice using business software. Refinement of the data analysis plan for the DNP Scholarly Project will be included.

Course Credit: 3 credit hours

Course Prerequisites: NURS 6301, 6302, 6314, and 6315

#### **Course Learning Objectives**

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

- 1. Evaluate outcomes of care using data analysis techniques. (AACN, 2.7)
- 2. Evaluate the alignment of system data and comparative patient safety benchmarks. (AACN, 5.2)
- 3. Design system improvement strategies based on performance data and metrics. (AACN, 7.3)
- 4. Evaluate the unintended consequences of information and communication technologies on care processes, communications, and information flow across care settings. (AACN, 8.1)
- 5. Use information and communication technology to gather data, create information, and generate knowledge. (AACN, 8.2)
- 6. Use information and communication technologies and informatics processes to deliver safe nursing care to diverse populations in a variety of settings. (AACN, 8.2

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## **Course Topics**

The outline of module titles and assignments is subject to change.

Week	Module/Content	Assignments (due by 2359 CDT)
Week 1	Getting Started: Overview,	5/6/25 Course Orientation
	Objectives, & Assessments	@ 1800 Zoom link in the module
		and announcements
		5/11/25 Graduate Affirmation Forms
		5/11/25 AACN Pre-Course Assessment
		5/11/25 Discussion Post: Course Pre-Mortem
	Module 1: Foundations of	5/11/25 Discussion Post: DNP Project
	Informatics and Healthcare Data	Data & Analysis Plan Table
Week 2	Module 2: Introduction to Biostatistics for DNPs	5/18/25 Biostatistics Quiz
		Begin critical appraisal paper
		(due to peers in Week 5)
Week 3	Module 3: Health Information	5/25/25 Discussion Post: EHR Critique
	Systems and EHR Optimization	
Week 4	Module 4: Data Analytics & Visualization	06/01/25 (suggested only) Data Visualization
		Work on data visualization to embed within
		your critical appraisal paper
		(due to randomly selected peer in Week 5)
Week 5	Module 5: Clinical Decision Support & Al in Practice	06/08/25 Discussion Post: Al Case Study Critique
		06/08/25 Peer Review prepared (numbered
		and redacted/blinded) Critical
		Appraisal Paper
		Dr. Watson will randomly
		generate your peer on 06/02/25 and
		send the manuscripts for review.
Week 6	Module 6: Consumer Health	06/15/25 Critical Appraisal Paper Blinded
	Informatics & Mobile Technology	Peer Review Response
Week 7	Module 7: Informatics Leadership,	06/15/25 Revised Critical Appraisal Paper
	Policy, & Innovation	06/15/25 Post-Course AACN Assessment
		06/15/25 Discussion Post: Course Post-
	-	Mortem
Throughout	Course-Long Discussion Posts	06/15/25 Al Got it Wrong
the Course		06/15/25 Healthcare Data in the Headlines

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## **Grading Policy and Criteria**

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.

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.

## **Important Clinical Hours Information and Requirements**

#### **DNP Project Hours Requirement**

To successfully pass this course, students must complete and document a minimum of 50 DNP Practice Hours in Exxat for this course. Proper and timely documentation in Exxat is mandatory and will be monitored for compliance.

#### **DNP Required Hours Doc**

Students who are applying approved post-baccalaureate clinical/practice hours to the DNP program are permitted to apply a portion of those hours to satisfy up to 50% of the required hours for this course, provided that these hours meet the program's criteria and are properly verified.

Practice hours must be logged in Exxat within 2 weeks of completing the activity. Failure to log hours within this timeframe will result in the hours being disqualified for credit, and the activity will need to be repeated to count toward the required hours.

Failure to complete the required hours for the course or to accurately document them in Exxat will result in an incomplete or course failure, as meeting the hour requirement is essential for progression in the program. Students are responsible for ensuring that all hours are properly logged and verified within the designated timeframe.

#### Practice Hours and Affiliation Agreement Policy

Students are not authorized to complete any DNP practice hours, including activities related to the DNP project, at any site, including their place of employment, without a fully executed Affiliation

Page 3 of 5 Updated April 25, 2025 Agreement between the academic institution and the practice site.

The Affiliation Agreement is a legal contract that ensures appropriate oversight, liability coverage, and compliance with institutional and clinical site policies. This agreement must be in place before the initiation of any practice hours at the proposed site.

Engaging in practice hours at a site without a formal agreement constitutes a violation of program policy and may result in a delay of hours being counted toward program requirements, academic penalties, or dismissal from the course.

Students are responsible for working with their DNP faculty and clinical placement coordinator to initiate and confirm the Affiliation Agreement process well in advance of the proposed start date for site-based activities.

You have likely completed this already and this is just a reminder.

## Assignments and Weights/Percentage/Point Values

Assignments	Percentage of Grade
Discussions	35%
Biostatistics Quiz	10%
Critical Appraisal Paper	35%
Blinded Peer Review Feedback	20%
Total	100%

#### Required Non-Graded Assignments (Complete or Non-Complete\*)

\*Submission of all non-graded assignments is required to pass the course.

Assignments	Submission
Getting Started: Course Pre-Mortem	C/NC
Week 5: Case Study Critique	C/NC
Blinded Critical Appraisal Paper Submission for Peer Review	C/NC
Week 7: Course Post-Mortem	C/NC

#### **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.

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#### **Important Course Dates**

- Orientation: 5/6/25 @ 1800, Zoom Link will be in the course Modules section
- Census Date: 5/9/25
- Memorial Day Holiday: 5/26/25
- Last Date to Withdraw: 6/5/25
- All Assignments Due: 6/15/25
- Juneteenth Holiday: 6/19/25
- Last Day of Course: 6/21/25
- Instructor Deadline for Course Grades: 6/24/25

#### **Required Textbooks/Materials**

- McGonigle, D., & Mastrian, K. G. (2021). *Nursing Informatics and the Foundation of Knowledge* (5th ed.) [Available for free via ProQuest through the Muntz Library, but specific chapters are fully provided on Canvas]
- American Psychological Association. (2020). Publication manual of the American Psychological Association (7th ed.). Washington, D.C.: Author. ISBN-13: 9781433832161
- Open AI ChatGPT monthly subscription for the duration of this course only (~\$23/month)
- <u>One of the following (Any option/edition will support you as a reference book):</u>
  - o <u>Statistics Made Easy, 4<sup>th</sup> Edition</u> [Available only in digital format]
  - o <u>Biostatistics for Dummies</u>, 2<sup>nd</sup> Edition
  - <u>Using Statistics</u> (free via ProQuest through the Muntz Library)
  - o <u>Statistics for People Who (Think They) Hate Statistics, 7<sup>th</sup> Edition</u>
- Weekly peer-reviewed journal articles (provided on Canvas)
- Online videos and lectures (provided on Canvas)
- Access to <u>one</u> of the following (your choice)
  - Excel, Power BI, or Tableau (free versions acceptable)

#### Attendance and Make-up Policy

Attendance and participation are expected. Make-up for any missed assignment is at the discretion of the instructor.

#### **Required Software**

Microsoft Office Word, Excel, and PowerPoint

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## **Artificial Intelligence (AI)**

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

Most assignments in this course permit using artificial intelligence (AI) tools, such as OpenAI ChatGPT or Microsoft Copilot. When AI use is permissible, it will be documented in the assignment description, and all use of AI must be appropriately acknowledged and cited. When using AI tools for assignments, add an appendix showing (a) the entire exchange (e.g., prompts used), highlighting the most relevant sections; (b) a description of precisely which AI tools were used, (c) an explanation of how the AI tools were used (e.g. to generate ideas, elements of text, etc.); and (d) an account of why AI tools were used (e.g. to save time, to surmount writer's block, to stimulate thinking, to experiment for fun, etc.). Students shall not use AI tools during in-class examinations or assignments unless explicitly permitted and instructed to do so.

#### https://www.uttyler.edu/digital-learning/ai/

# 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 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

#### School of Nursing Policies and Additional Information

Page 6 of 5 Updated April 25, 2025 https://www.uttyler.edu/nursing/college/student\_guide\_and\_policies.php

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