



**Healthcare Informatics for the 21st Century  
NURS 5381  
Fall 2024 (First Flex Session)**

**Scheduled Class Days and Times: Online**

**Instructor's Name:** Deb Graham, DNP, MBA, RN, NI-BC, EBP-C ([Section 060](#))

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**Office Hours:** Virtual Office Hours: Thursday from 5-8 pm CST (by appointment for phone call or video conference. Additional days and times may be arranged upon request. Please email the faculty to make arrangements and obtain a Zoom/Teams link).

\*Best way to contact me.

**Instructor's Name:** Ann Campbell, DNP, RN ([Section P061](#))

**Office:** Virtual

**Phone:** 903.566.7320 (UT SON)

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**Office Hours:** Virtual Office Hours: Thursday from 6-9 pm CST (by appointment for phone call or video conference. Additional days and times may be arranged upon request. Please email the faculty to make arrangements and obtain a Zoom/Teams link).

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**Course Description:** Provides introductory principles to understand conceptual and theoretical basis for information management in healthcare informatics. An interdisciplinary approach will be used to examine the clinical aspects, practice considerations, and application of information technology.

**Prerequisites:** None

**Student Learning Outcomes:**

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

1. Explain the role of the informatics professional in the healthcare setting.
2. Analyze healthcare environments to determine how informatics and technology can support organizational needs and a caring environment.
3. Utilize select theories that guide the application of informatics in healthcare delivery and education.

4. Construct policies that incorporate ethical principles as well as regulatory and legal standards in the use of health and information technologies.
5. Analyze legal and ethical issues within the health care system as it relates the use of information, information technology, and communication networks in various healthcare settings.
6. Apply concepts of privacy, security, and ethical use of information to a variety of healthcare settings and consumer groups.
7. Explain the concept of interprofessional practice and its importance in healthcare informatics and technologies.
8. Demonstrate competency in word processing software applications required for informatics professionals and nursing leaders.

### **Required Textbooks and Readings:**

We are currently transitioning to the 6th edition of our main textbook. If you have already purchased the 5th edition, you are welcome to continue using it. However, please note that there may be instances in the 'Check Your Understanding' quizzes where the older edition does not contain the required information. In such cases, you may need to utilize additional resources to find the answer.

McGonigle, D. & Mastrian, K. G. (2021) *Nursing informatics and the foundation of knowledge 5<sup>th</sup> edition*. Burlington, MA: Jones & Bartlett Learning

ISBN-10: 128422046X

ISBN-13: 978-1284220469

Used or Rental is acceptable – no requirement to use online resources

This text is also used in NURS 5381, 5383, 5385, & 5387

### **OR**

McGonigle, D. & Mastrian, K. G. (2025) *Nursing informatics and the foundation of knowledge 6<sup>th</sup> edition*. Burlington, MA: Jones & Bartlett Learning

ISBN-10: 1284293432

ISBN-13: 978-1284293432

Used or Rental is acceptable – no requirement to use online resources

This text is used in NURS 5381, 5383, 5385, & 5387

American Nurses Association (2022). *Nursing Informatics: Scope and Standards of Practice, 3rd Edition*. Silver Springs, MD: American Nurses Association

ISBN-10: 1953985009

ISBN-13: 978-1953985002

Used is acceptable – no requirement to use online resources

This text is used in NURS 5381, 5383, 5385, & 5387

All students need to load and install Microsoft Office 365 desktop for PC/Mac. Instructions will be found in Canvas.

Other learning materials will be provided in the Canvas course.

### **Recommended Textbooks and Readings:**

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

ISBN-13: 9781433832161

### **Assignments and Weights/Percentage/Point Values**

<b>Criteria for Evaluation</b>	<b>Percentage Weight of Grade</b>
Participation	5%
Discussions	20%
Required Webinars	20%
Application Assignments	30%
Learning Assessment Exercises	15%
Module Quizzes	20%
<b>Total</b>	<b>100%</b>

### **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.

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 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, 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 the Canvas course.

The toolkit competencies focus on students' development of expert-level competencies in the Microsoft Office applications, a foundational skill for an informatics nurse specialist. This

course focuses on Microsoft Word. These skills will be assessed in learning assessment exercises and then applied in two assignments.

Each module will have an “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.

Discussion boards and webinars cover topics of importance in nursing informatics and may be conducted by faculty or guest speakers.

### Important Course Dates:

**Classes Begin:** August 29, 2024

**Census Date (withdraw without penalty):** September 5, 2024

**Last Date to Withdraw:** October 2, 2024. Students, please notify your course faculty and contact your advisor.

**Final Exam:** N/A

### Course Topics

Assignments may be based on current events in nursing informatics and are subject to change by instructors. Go to the Syllabus Page in Canvas for links.

Module Information	Dates	Topics
Module 1: Course Introduction and Welcome	Week 1	Introduction – What are your goals for this class? Knowledge assessment survey
Module 2: Professional Practice	Week 2	Scope and standards of practice Organizations guiding professional practice Informatics competencies for all nurses Informatics roles and relationships Staff development related to informatics
Module 3: Methodologies, Theories and Ethics	Week 3	Concepts or theories that support informatics practice, organizational behavior, communication, systems, and learning styles) Applying ethical practices related to data and informatics solutions
Module 4: Rules, Regulations & Requirements	Week 4	Regulatory, reimbursement, and accreditation requirements (e.g., clinical processes involving revenue cycles, The Joint Commission, Centers for Medicare and Medicaid Services [CMS], HITECH Act), Legal issues (e.g., malpractice, scope of practice, proprietary data misuse) Security, privacy, and confidentiality regulations, laws, and principles
Module 5: Evidence-based Practice & Informatics	Week 5	Information literacy and evidence-based practice Applying evidence-based practice to informatics solutions, Critical thinking and decision-making, Fair use

Module Information	Dates	Topics
		and intellectual property, Clinical decision support/Expert Systems
Module 6: Interprofessional Collaboration and Informatics in Education	Week 6	Effective communication strategies and techniques Team building, conflict management, and resolution, HIT Education
Module 7: HIT Teams	Week 7	Teamwork in HIT teams – working with others outside of clinical disciplines Word Processing Skills Post-Assessment Survey DB: Reflection on Learnings

### School of Nursing Policies and Additional Information:

[https://www.uttyler.edu/nursing/college/student\\_guide\\_and\\_policies.php](https://www.uttyler.edu/nursing/college/student_guide_and_policies.php)

### Student Resources and University Policies are provided in Canvas.

#### University Guidelines on the Use of Artificial Intelligence applications by faculty and students

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.

For this course AI is encouraged during the course, and appropriate acknowledgment is expected. You are encouraged to explore using artificial intelligence (AI) tools, such as ChatGPT, for assignments and assessments. Any such use must be appropriately acknowledged and cited, following the guidelines established by the APA Style Guide, including the specific version of the tool used. The submitted work should include the exact prompt you used to generate the content and the AI's complete response as an appendix. Because AI-generated content is not necessarily accurate or appropriate, you must assess the validity and applicability of any submitted AI output. You will not earn full credit if inaccurate, invalid, or inappropriate information is found in your work.

[APA Style Citation Information](#)