![UT Tyler School of Nursing logo]

Information Systems Life Cycle
NURS 5385
Summer 2024

Scheduled Class Days and Times: Online

Instructor's Name: Martha Badger, PhD, RN-BC (Section .060)
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Office Hours: Virtual Office Hours: Fridays 1-3 pm CT (see Canvas--by appointment for a phone call or video conference. Additional days and times may be arranged upon request. Please email the faculty to make arrangements/obtain a Zoom link.
*Best way to contact me.

Course Description: This course is focused on preparing the students for all facets of information system procurement and implementation. A primary focus of the course is on the tactical skills and competencies required to implement information systems in various healthcare settings. This course prepares the student to function as a project team member during the implementation of a clinical information system and to participate in system evaluation and maintenance.

Prerequisites: None

Student Learning Outcomes:

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

1. Integrate scientific knowledge and theories from nursing and related disciplines into advanced nursing practice;
2. Apply organizational and systems leadership principles and methods for the promotion and evaluation of quality, ethical, and safe patient care;
3. Translate, integrate, and disseminate scientific evidence into practice;
4. Utilize technologies to deliver, enhance, integrate, and coordinate communication, education, and patient care;
5. Intervene at the systems level through the policy development process and employ advocacy strategies to influence health care;
6. Manage care through collaboration with other health care professional as a member and leader of health care teams; and
7. Integrate organizational client centered concepts to provide preventive and population-based care.

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. Quizzes will be based on the 5th edition for the remainder of your program.

McGonigle, D. & Mastrian, K. G. (2018) *Nursing informatics and the foundation of knowledge 5th edition*. Burlington, MA: Jones & Bartlett Learning
ISBN-10: 128422046X
ISBN-13: 9781284122688
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 6th edition*. Burlington, MA: Jones & Bartlett Learning

ISBN-10: 1284293432
ISBN-13: 99781284295184
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

Criteria for Evaluation	Percentage Weight of Grade
Participation	5%
Discussions	25%
Application Assignments	30%
Learning Assessment Exercises	15%
Module Quizzes	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 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.

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 Outlook and Teams. These skills will be assessed in learning assessment exercises and applied in application assignments.

Each module will have a *Assess Your Understanding* quiz. The module assessment may be taken as many times as the student wishes. 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. These may change from semester to semester, depending on updated information from the nursing informatics field. This course is focused on data analysis and visualization.

Please Note: Detailed information, along with grading rubrics for course assignments, will be provided in Canvas.

Important Course Dates:

Classes Begin: May 13, 2024
Census Date (withdraw without penalty): May 28, 2024
Last Date to Withdraw: July 16, 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
Toolkit Competencies: Collaboration software	Weeks 1-14	Toolkit Competencies: Microsoft Outlook, Teams and Project management software
Module 1 Introductions	Week 1	Introductions, Overview, Objectives & Assessments
Module 2 Project Management	Weeks 2-4	Information systems, databases, and structured query language (SQL)
Module 3 System Development Life Cycle: Planning & Analysis	Week 5	Data Standards & Management, data usage, natural language process, learning organizations, risk, and patient identification
Module 4 System Development Life Cycle: Design & Build	Week 6-8	Healthcare data analytics and visualization
Module 5 System Development Life Cycle: Implement & Testing	Weeks 9-11	Role of EHR, public health vs. population health, data for health promotion, evidence generation
Module 6 System Development Life Cycle: Monitoring, Maintaining, Supporting & Evaluating	Weeks 12-13	Using technology to improve healthcare education
Module 7 Care Coordination Wrap-up and Finals	Week 14	Informatics's impact on care coordination DB: Reflection on Learnings

School of Nursing Policies and Additional Information:

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