The University of Texas at

TYLER

School of Nursing

Spring 2022

Course Number: **NURS 5385**
Sections: **.060**
Course Title: **Information Systems Life Cycle**

Course Faculty

See information in the Canvas syllabus page – faculty information redacted for web version

Instructor's Name:	
Office Address:	
Telephone:	
Preferred Email:	
Office Hours:	

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.

Course Credit and Clock Hours: 3 credit hours (3 clock hours per week)

Class Time: Primarily asynchronous in Canvas Learning Management System. Any scheduled live web meetings will be recorded for those who cannot attended in real-time. Those who cannot participate in real-time discussion may have a 2-3 paragraph assignment in addition to watching recorded webinar.

Prerequisites: None

Nursing Organization Mappings

- American Association of Colleges of Nursing (AACN) MSN Essentials V & VII
- Quality and Safety Education for Nurses (QSEN) Competencies: Teamwork and Collaboration & Informatics

Program Student Learning Objectives

At the completion of the MSN-IQS degree program, the graduate 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.

Course Student Learning Outcomes

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

1. Explain the major methodologies used for developing a strategic plan.
2. Assume a project team member role during system selection, implementation, and testing.
3. Plan for regular system evaluation, maintenance, support and eventual decommission.
4. Develop and effectively utilize strategies to obtain user acceptance and satisfaction data.
5. Design and present a project plan based on a healthcare case study including budget and timeline.
6. Design an education plan for a system implementation project.

Course Topics

Course topics are based on the 2018 ANCC Test Plan for Certification in Nursing Informatics and the 2017 Healthcare Information and Management Systems Society (HIMSS) Certified Associate in Health Information and Management Systems (CAHIMS) Certification.

Module	Subject
Toolkit Competencies: Collaboration Software Weeks 1-14	Toolkit Competencies: Collaboration software Microsoft Outlook, Teams and Project management software
Module 1: Introductions, Overview, Objectives & Assessments Week 1	Introductions, Overview, Objectives & Assessments
Module 2 Project Management Weeks 2-4	Project Management
Module 3 SDLC: Planning & Analysis Week 5	System Development Life Cycle (SDLC): Planning & Analysis
Module 4 SDLC: Design & Build Week 6-8	SDLC: Design & Build

Module 5 SDLC: Implement & Testing Weeks 10-11	SDLC: Implement & Testing
Module 6 SDLC: Monitoring, Maintaining, Supporting & Evaluating Weeks 12-13	SDLC: Monitoring, Maintaining, Supporting & Evaluating
Module 7 Care Coordination & Wrap up Weeks 14-15	Care Coordination Reflection on Learning

Required Textbooks

McGonigle, D. & Mastrian, K. G. (2018) *Nursing informatics and the foundation of knowledge 4th edition*. Burlington, MA: Jones & Bartlett Learning

ISBN-13: 9781284122688
Used or Rental is acceptable – no requirement to use online resources
This text is also used in NURS 5381, 5383, & 5387

Other learning material will be provided in the Canvas course.

Microsoft Outlook and Teams will be used in this course.

Optional Textbooks

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7th ed.). Washington, D.C.: Author.
ISBN-13: 9781433832161

Course Schedule

The course schedule, including assignment due dates and last day to withdraw without penalty, may be found in the course schedule posted in the "Syllabus" in Canvas.

- Census Date: January 10, 2022
- Mid-Term Exam: none
- Last Date to Withdraw: March 21, 2022
- Final Exam Date: none

Grades and Grading

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

Updated December 2021

The weighted average of the graded assignments must be 80% or above to pass the course. All assignments should be submitted prior to the pre-determined due date, unless prior arrangements have been made with the course faculty and a new due date determined.

Late policy: 5% will be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty.

Group Member Feedback and Grading

For group projects, the instructor may allow for members to provide feedback on the contributions and work effort of other group members. This feedback may be taken into account in issuing individualized grades for group projects. In other words, the input of your group members may positively or negatively affect your grade on these projects.

Rounding: 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 expected to achieve an average of 80% (B) to successfully complete the course.

Criteria for Evaluation	Percentage of Grade
Participation	5%
Discussions	20%
Required Webinars	20%
Application Assignments	25%
Toolkit Learning Assessment Exercises - Word	10%
Module Quizzes	20%
Total	**100%**

Assignments

Academic Integrity

Students are expected to assume full responsibility for the content and integrity of all academic work submitted. Refer to the *Graduate Nursing Student Guide* for policies regarding conduct and discipline.

Assignments Submission Process

All assignments will be submitted through the "Assignments" tab or can also be submitted via the Modules tab in Canvas unless otherwise indicated. Please use the following process to prepare and submit assignments:

- Prepare your assignment using Microsoft Word unless otherwise directed.
- Access the "Assignments" tab (or in the Modules tab) and click on the Assignment link.
- If you need more instructions on "how-to" submit files through the assignment link, please read the Canvas Help for Students located in the Tools area.

Assignments are a major part of the course work and should receive appropriate attention. All assignments must meet the standards for graduate-level work (spelling, punctuation, syntax, grammar, content, and most of all, scholarliness). It is expected that all assignments will be completed in a **timely manner** unless

arrangements have been made by you and your faculty. Five (5) points may be deducted for each day an assignment is late.

Written Assignments

Unicheck is a feature provided by Canvas that is designed to detect plagiarism or non-original student work. Your instructor decides which assignments will ultilize this application. This feature is set up so that when you submit papers, they are automatically sent through Unicheck. The program checks your work against a comprehensive database of source material including previous students' work and other papers and materials found on the web. An originality report will be generated that indicates the percentage of non-original material (text that matches existing sources) found in your paper. The purpose of using Unicheck in your course is to ensure you are writing original papers and to encourage you and all students to properly attribute all sources used.

All submitted written material (papers, assignments, examinations, etc.) are the property of the School of Nursing and will be maintained in an archived file at UT Tyler.

Participation Expectations and Discussions Assignments

- Each student participant is responsible for participating in the asynchronous discussions for each Discussions post. This participation will include posting answers to questions posed by the instructor and replying to other participants' postings.
- Discussion postings should be made in a timely manner. Deadlines are listed in the Course Schedule. Please note that all discussion postings must be completed by 11:59pm Central Standard Time on the due date.
- Participants should plan on entering the Discussion area at least three times a week to read and comment on others' postings. Posting answers to the questions posed in the Discussion area should be done in advance of the deadline to allow other participants to have the opportunity to comment. The requirements for postings and responses to your peers are listed in each discussion assignment and may vary based on the discussion.

You may check your grades at any time on the Canvas website. Feedback on assignments will be provided via the gradebook.

Quizzes

Quizzes are for your learning and to help you keep up your skills at completing multiple choice exams as all certifications in informatics require timed multiple-choice examinations. Quizzes in this class will be open book and students will have three attempts with the highest score received by due date recorded.

Pre/Post Class Knowledge Assessment Survey

Each of the classes in the informatics program will have a pre/post knowledge assessment survey to assist the faculty in understanding your own perception of your knowledge growth during this course. Points are awarded for completion of both surveys not on the content of the survey. Completion of only one survey is not sufficient to obtain the indicated points.

Recording of Class Sessions

Updated December 2021

Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

Military Affiliated Students

I honor the service and sacrifices of our military affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with me if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of my course or creates disruption in your academic progress. It is important to make me aware of any complications as far in advance as possible. I am willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. Campus resources for military affiliated students are in the Military and Veterans Success Center (MVSC). The MVSC can be reached at MVSC@uttyler.edu or via phone at 903-565-5972.

Email Communications

All students are required to use their student **Patriot email accounts** for all correspondence (Approved FO: 2/03). To communicate by email within the course with other participants or all participants, click the Tools link on the left side of the Canvas frame. Click Send E-mail to send a message. You are able to send messages to All Users or Select Users in the course, including the instructor. Faculty will not respond to personal email (e.g. Gmail, Yahoo, Hotmail, AOL, ATT accounts, etc.). Please comply with University Policy regarding electronic communication. Your instructor's work email is listed in Canvas as a backup option.

Questions or problems other than technical problems may be submitted to the email address above. For technical issues, please refer to the Technical Information/Technical Support in this Syllabus.

12/2021 COVID Update:

"The COVID-19 situation continues to be fluid, with SON and university policies and procedures changing in response. Please keep apprised of the most recent updates through your SON program site in Canvas (faculty could put link here specific to BSN, MSN, DNP, Ph.D.) and the university website (*https://www.uttyler.edu/coronavirus/*)"

Student Resources & University Policies

Updated Student Resources & University Policies and Information are available in the Canvas course Syllabus Module.