



## NURS 3353

### Informatics and Technology

### Summer 2025 2<sup>nd</sup> 5 Weeks Internet Course

**Instructor:**

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**Student hours and location:**

By appointment

**Required Textbook/Materials:**

Hardy, L. R. (2024). *Health informatics: An interprofessional approach* (3rd ed.). Elsevier Inc.

American Psychological Association. (2020). Concise Guide to APA Style (7<sup>th</sup> ed.).

<https://doi.org/10.1037/0000173-00>

**Textbook Purchasing Statement:**

*A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.*

**Course Description:**

This course establishes the role of electronic information infrastructure in the delivery of care within the institution and inter-disciplinary care team. The focus of this course includes the utilization of informatics to access data to enhance quality and continuity of care in a variety of healthcare settings. (Credit 3: Lecture 3, Lab 0) (8-week course, 48 contact hours)

**Course requirements:** (including description of any special projects or assignments)

1. **Discussion board (5):** Assess knowledge and application of incremental course content. Students are required to submit a primary post each week that is reflective of the weekly reading assignments and is supported by cited references. Students are required to reply to two of their peers/faculty postings each week and responses must entail new information to the post supported by cited references. Failure to submit assignments by the designated due date may result in a zero for the assignment.
2. **Quizzes (3):** Assesses knowledge and application of content integrated within the course. Students will complete quizzes as assigned, each due at midnight on the assigned deadline. The quizzes are multiple choice, multiple answer, and alternative-style questions. The student will have one attempt to complete each quiz, which will be averaged for the quiz grade.
3. **Case Study Assignment (2):** Assesses the students' ability to apply nursing informatics concepts to real-world clinical scenarios. Students will be presented with a case study

that highlights a healthcare situation involving informatics challenges. Their task is to analyze the case, identify key informatics issues, and propose evidence-based solutions to improve patient outcomes and enhance nursing practice.

4. **Workflow Assignment (1):** Evaluates the students' ability to design and analyze clinical workflows incorporating nursing informatics tools. Students will create a workflow diagram for a specific nursing process, integrating informatics applications that enhance efficiency, patient safety, and care quality.
5. **Informatics Paper (1):** Assesses ability to synthesize information when collaborating on a topic with peers/faculty in which the assigned group of students will choose a relevant informatics topic to develop a nursing perspective in the healthcare setting. The students will analyze the roles of the baccalaureate prepared nurse including Provider of patient-centered care, Patient safety advocate, Member of the Interdisciplinary Team, and Member of the Profession.
6. **Reflection Paper (1):** This assignment aims to foster self-awareness and critical thinking by having students reflect on their learning journey throughout the nursing informatics course. Through this reflection, students will explore how the course content, activities, and interactions have contributed to their growth as informed nursing professionals.

#### Grading Scale

**A = 90 -100.00**

**B = 80 -89.99**

**C = 70 -79.99**

**D = 60 -60.99**

**F = < 60**

#### Determination of Course Grade/Detailed Grading Formula:

Assignment	%
Informatics Paper	25
Discussion Board	15
Unit Quizzes	15
Workflow Analysis	20
Case Study	15
Reflection Paper	10
<b>Grade Total</b>	<b>100%</b>
*A Grade Total of at least 70% is required to pass the course.	

#### Late Work, Make-Up, and Extra-Credit Policy:

All course assignments are expected to be completed and submitted on the specified due date. See Late Assignments policy in the Nursing Student Handbook.

Group Paper will be accepted late with a ten point deduction per day up to five days.

#### Attendance Policy:

Students are expected to log into the D2L LMS a minimum of three times per week. Failure to log in may result in a withdrawal from the course due to nonattendance.

#### Communicating with your instructor:

ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

<b>Student Learner Outcome</b>	<b>Maps to end of Program Outcomes (Student) SLO's</b>	<b>Assessed via this Assignment</b>
1. Integrate knowledge, skills, and abilities gained from personal experiential learning, prerequisite, and co-requisite courses in the program of study.	Synthesize knowledge, skills, and values from the arts, sciences, and humanities as an exemplar of professional nursing and an advocate of social justice.	Unit quiz
2. Discuss the history and current scope of practice for health informatics in healthcare.		Unit quiz, Case Study, Paper
3. Develop basic understanding of common computer-generated spreadsheets and the application to nursing.	Utilize data to monitor outcomes of care and improvement methods to continuously improve the quality and safety of nursing care to minimize risk of harm individually and across the healthcare system.	Unit quiz
4. Use databases to access information.	Utilize data to monitor outcomes of care and improvement methods to continuously improve the quality and safety of nursing care to minimize risk of harm individually and across the healthcare system.	Unit quiz
5. Integrate information technology to provide safe, patient-centered care.	Utilize data to monitor outcomes of care and improvement methods to continuously improve the quality and safety of nursing care to minimize risk of harm individually and across the healthcare system.	Discussion board, Unit quiz, Paper
6. Differentiate the information needs of the healthcare provider, patient, organization, and insurer in various healthcare settings.		Paper, Unit Quiz
7. Distinguish the legal and ethical implications related to use of information technology.		Unit quiz

8. Analyze the impact of information technology on the delivery of safe quality care at the organizational level.	Provide comprehensive patient-centered care utilizing an organized framework to make individual, community, and population-based decisions grounded in evidence-based practice.	Unit quiz, Case study
9. Evaluate the impact of information technology on the delivery of safe quality care for the individual, family, and community.		Workflow analysis, Unit quiz
10. Examine the relationship of information technology to interdisciplinary communication, collaboration, and continuity of care.	Communicate and collaborate with the interdisciplinary team to lead and manage shared decision-making for optimal patient, family, population, and community outcomes.	Discussion board, Unit quiz

**Academic Dishonesty:** See the Nursing Student Handbook

**Student Concerns:** If you have questions or concerns about any aspect of this course, please follow the chain of command in the order listed below, emailing each individual to schedule an appointment as needed. If you need to schedule an appointment with the Director of Nursing or the Dean, please email **[nursing@com.edu](mailto:nursing@com.edu)** to initiate the process.

1. **Direct Instructor**
2. **Course Facilitator**
3. **Program Coordinator**
4. **Director of Nursing**
5. **Dean**

Please see the Student Concerns Policy in the Nursing Student Handbook for further instructions.

Notice to Students Regarding Licensing Effective September 1, 2017, HB 1508 amends the Texas Occupations Code Section 53 that requires education providers to notify potential or enrolled students that a criminal history may make them ineligible for an occupational license upon program completion. The following website provides links to information about the licensing process and requirements: [www.tdlr.texas.gov](http://www.tdlr.texas.gov)

**NURS 3353 Informatics and Technology in Healthcare  
Course Calendar**

<b>Semester Dates</b>	<b>Course Content</b>	<b>Learning Activities and Assignments</b>	<b>Due Date</b>
<b>Week 1</b>	Chapter 1 Chapter 11	1.1 Syllabus Acknowledgement 1.2 Plagiarism Acknowledgement 1.3 AI Acknowledgement 1.4 Handbook Acknowledgement 1.5 Intro Discussion Board 1.6 Discussion Board	1.1-1.4 Acknowledgements due Tuesday  Discussion Board Initial Post due by Wednesday. <b>2 replies</b> to peers due by Sunday at 2359  Weekly Quiz due Sunday by 2359
<b>Week 2</b>	Chapter 7 Chapter 9 Chapter 12	2.1 Case Study 2.2 Discussion Board 2.3 Weekly Quiz	Case Study due Sunday by 2359  Discussion Board Initial Post due by Wednesday. <b>2 replies</b> to peers due by Sunday at 2359  Weekly Quiz due Sunday by 2359
<b>Week 3</b>	Chapter 15 Chapter 16 Chapter 22 Chapter 24	3.1 Workflow Assignment 3.2 Discussion Board 3.3 Weekly Quiz	Workflow Assignment due Sunday by 2359  Discussion Board Initial Post due by Wednesday. <b>2 replies</b> to peers due by Sunday at 2359  Weekly Quiz due Sunday by 2359
<b>Week 4</b>	Chapter 13  Chapter 14	4.1 Case Study 4.2 Discussion Board 4.3 Weekly Quiz	Case Study due Sunday by 2359  Discussion Board Initial Post due by Wednesday. <b>2 replies</b> to peers due by Sunday at 2359  Weekly Quiz due Sunday by 2359
<b>Week 5</b>	Chapter 27	5.1 Informatics Paper	Informatics Paper due Wednesday by 1200

Chapter  
28  
Chapter  
30  
Chapter  
31

## 5.2 Reflection Journal

Reflection Journal due  
Wednesday by 1200

## **Institutional Policies and Guidelines**

**Grade Appeal Process:** Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook [https://www.com.edu/student-services/docs/Student\\_Handbook\\_2024-2025\\_v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.pdf). An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.

**Academic Success & Support Services:** College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

**ADA Statement:** Any student with a documented disability needing academic accommodations is requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator  
Phone: 409-933-8919 Email: [AccessibilityServices@com.edu](mailto:AccessibilityServices@com.edu)  
Location: COM Doyle Family Administration Building, Student Success Center

**Textbook Purchasing Statement:** A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Withdrawal Policy:** Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 5-week session is June 29. The last date to withdraw from the 10-week session is July 28. **The last date to withdraw for the 2nd 5-week session is July 31.**

**FN Grading:** The FN grade is issued in cases of failure due to a lack of attendance, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

**Early Alert Program:** The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

**Resources to Help with Stress:** If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at [deanofstudents@com.edu](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).

**Nondiscrimination Statement:** The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy