

Computer Applications in Health Care

Clemson University, School of Nursing

COURSE:	NURS 1400 (Section 003)	TERM:	Spring 2019
LOCATION:	Watt Room 106, 5-8 PM	PHONE:	864-940-8536
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Credits:	3 credits (3, 0)		
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Catalog Description:



This course is designed to introduce students to nursing and the application of computer technology in the delivery of health care. The course will cover existing computer health care applications, emerging trends and forecast future needs. Social and ethical issues related to technology will be discussed.

Clemson Thinks2:

This course is a part of the Clemson Thinks2 (CT2) Quality Enhancement Plan that focuses on undergraduate critical thinking, a skill that is vital to your success in college and after graduation. The CT2 initiative at Clemson is part of the university's strategic plan to become a top-20 University in part by promoting engaged learning environments that promote critical thinking skills among students throughout their 4-year Clemson Experience. Critical thinking is a core competency for BSN graduates. Upon graduation, baccalaureate-prepared nursing students should question, analyze, interpret, infer, apply, and use inductive and deductive reasoning, as well as intuition and creativity in their nursing practice ([American Association of College of Nursing, *Essentials of Baccalaureate Education for Professional Nursing Practice*, 2008](#)).

This course has been designed to provide freshman & sophomore level students with opportunities to enhance critical thinking skills that will prepare them to engage in higher-level informed thinking in the classroom, the community and their future careers. To assess the students' progress in critical thinking skills, students will take the California Critical Thinking Skills Test (CCTST) at the beginning and end of the semester. Many of the course assignments are designed to enhance critical thinking skills, such as analyzing, inferring, evaluating, deducing, and critiquing. The primary goals of this CT2 seminar include developing students who can:

1. Develop university-level competencies that characterize critical thinking
2. Describe and reflect on specific activities that characterize critical thinking
3. Apply critical thinking skills to problem-solving situations related to the patients and patient care.

Course Objectives:

1. Describe concepts relevant to the profession of nursing and information technology in health care.
2. Apply information technologies to the intellectual and professional development of health care delivery.
3. Demonstrate an understanding of the role of science and technology in society including information ethics and societal issues.
4. Explore recent innovations, emerging trends and forecast future needs related to the use of technology in health care.
5. Identify current informatics research issues and opportunities.

CT2 Course Student Learning Outcomes:

Upon successful completion of the course, students will demonstrate the ability to:

1. Explore and describe complex challenges associated with new healthcare technologies [Nursing Innovation*, Critical Thinking Paper*].
2. Learn to assess the reliability of healthcare information on the Internet and assist patient to make well-informed choices about where to find reliable information [Digital Patient Engagement*].
3. Identify a patient problem/issue, determine a solution to this patient problem, and create a 3D printed prototype depicting your solution. Evaluate your solution including its strengths and weaknesses. Develop an argument to support your prototype [Makerspace Activity*].
4. Reflect on the strengths and weaknesses of yourself and your team members and suggest ways in which you and others could improve the future work of the team [Makerspace Activity*]



*These are CT2 artifacts.

Teaching/Learning Strategies:

Software Applications
Demonstrations
In-class Exercises

Discussions (Online & In Class)
On-line Activities
Project Presentations

Evaluation Methods:

A passing course grade requires a minimum numerical grade of 75 in the course. A passing grade is the weighted average of Critical Thinking (CT2) paper, Makerspace Activity, class activities, Midterm examination, CCTST(X2) and Final examination.

Students who do not complete a class activity or who fail to meet the deadlines for a class activity will receive an incomplete (0 points) on the activity. Class activities that are completed and submitted in a timely fashion will be graded as complete (1 point) and will account for 10% of the total grade. If a student has 5 or more late or incomplete activities, the student will automatically receive a zero (0) for the entire 10% of the class activities grade.

Milestone 02: The Critical Thinking [CT2] Paper:

Write a critical thinking paper about the healthcare problem identified in Milestone 01. Conduct a computer library search to find recent (2014-2019) articles concerning the healthcare problem. Make sure the research includes both the pros and cons on patient care. Write a critical thinking paper using APA format. Make sure you include a Peer Evaluation for each member of your group. [Draft counts 15% of total paper grade. Therefore, 15% draft + 85% final = CT2 paper grade].

Milestone 03: The Makerspace Activity:

This Makerspace Activity will be a collaborative between the Clemson University School of Nursing, The HIVE: Health InnoVation Exchange] and the [Clemson Makerspace](#). Each student will complete training to using the Clemson Makerspace. Then groups will create a prototype project [include 3D printing] as a possible solution to the identified patient problem. Finally, students will submit a final Adobe Spark project and submit the link. Make sure you include a Peer Evaluation for each group member. The Makerspace Activity counts as 20% of your final grade.



If done correctly, these assignments provide evidence for the following competencies:

- M1 Demonstrate mathematical literacy through solving problems, communication concepts, reasoning mathematically, and applying mathematical or statistical methods using multiple representations.
- M5 Understand the role of science and technology in society.

Project Group Policy:

During the course of your Nursing Innovation Project, should you feel that any member of your group is not doing their share of the work, or if any wrongdoing is going on between group members, this should be reported to the professor immediately. Group work is a collaborative effort and is only as good as the sum of its parts. Therefore, whatever product is turned in as a group, each individual in the group will receive the same grade. This is in an effort to discourage one person in a group from doing all the work, as well as Identifying group members who are not doing a fair amount of the work. If the entire group deems a member unsound and reports it, appropriate action will be taken, which can include, but is not limited to, counseling sessions with the group and professor, individual reported counseling with professor, and/or outright expulsion from the group with the expelled individual having to finish a different project on their own.

Peer Evaluation. Reflect on the strengths and weaknesses of yourself and your team members and suggest ways in which you and others could improve the work of the team in the future.

Grading Scale:

- A = 90 - 100
- B = 80 - 89
- C = 75 - 79
- D = 70 - 74.9
- F = 69 and below
- I = see University policy

Course Policies:

Assignments must be completed and submitted by 11:59 p.m. on the due date (EST) for full credit. Late assignments or projects will have 5 points deducted per day for 3 days unless arrangements are made with the faculty **prior** to the due date and time. Assignments and projects not submitted within 3 days of due date will receive a zero (0). It is your responsibility to confirm that your assignment has been successfully uploaded and submitted via CANVAS. After you submit your assignment in CANVAS, please confirm that your assignment has been submitted. Take a screen shot showing the successful submission with date and time and save this. It is important to confirm that your assignment was submitted prior to the due date and time.

Naming Convention for Submission of Course Documents:

Use the following naming format when you turn in course assignments.

1. The Course ID first, followed by a space.
2. Your last name followed by first initial, followed by a space.
Example: N1400 MeehanN NI
[NI=Nursing Informatics]

Inclement Weather:

When county government offices are closed, local Clemson University campuses also are closed. Visit the [county government offices website](#) to monitor county office closings in your area.

Attendance Policy:

College work proceeds at such a pace that regular attendance is necessary for each student to obtain maximum benefits for instruction. Regular and punctual attendance at all class sessions is the responsibility of each student, and each student is responsible for all the work, including tests and written work. All absences are matters to be resolved between the student and the instructor. In the event that a student finds it necessary to be absent from class, it is the student's responsibility to make up resulting deficiencies.

In the event that there is a conflict between class and a regularly scheduled academic or athletic activity sponsored by Clemson University, it is the responsibility of the student to inform the instructor of this requirement **in advance**. If this procedure is not followed, the instructor reserves the right to deny the student the opportunity to make up any quizzes, examinations or instruction

missed. Excuses other than those involving official university functions are expected within one (1) week of the absence(s).

Academic Integrity:

"As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a 'high seminary of learning.' Fundamental to this vision is a mutual commitment to truthfulness, honor and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we will not tolerate lying, cheating, or stealing in any form."

You are expected to be on your honor not to cheat and to report cheating if you are aware of it. The university policy on academic dishonesty is outlined in the student handbook. Please read this section and know that I uphold the university policy and that cheating (including giving or receiving information on tests, homework, plagiarism, lying about absences, homework, etc.) can result in an "F" in this course and a mark on your permanent record.

"Cheating" includes, but is not limited to:

1. Plagiarism on papers.
2. Giving answers to another on a test by writing large letters in margins, or not covering the test answers.
3. Copying test questions and giving to another student.
4. Talking during exams.
5. Having notes at the desk during exams.

Integrity violations will be reported as per University Policy and may not include notification of the suspected student.

Title IX Policy:

Clemson University is committed to providing a higher education environment that is free from sexual discrimination. Therefore, if you believe you or someone else that is part of the Clemson University community has been discriminated against based on sex, or if you have questions about Title IX, please contact the Title IX Coordinator Alesia Smith who is also the Executive Director of Equity Compliance, at 110 Holtzendorff Hall, 864-656-3181 (voice) or 864-656-0899 (TDD). The Title IX Coordinator is the person(s) designated by Clemson University to oversee its Title IX compliance efforts.

Safety:

Emergency Guidelines from Clemson University Police

All students and employees should be familiar with the following guidelines.

For additional information about safety, see

<http://www.clemson.edu/cusafety/preparedness/>.

Evacuation:

- When evacuating buildings, do not use elevators as they may lose power, stranding riders.
- Familiarize yourself with the locations of stairwells and exits.
- Individuals needing assistance evacuating should move to a stairwell away from the hazard, dial 911, and provide the Dispatcher with their exact location and what they need regarding evacuation.
- When evacuating follow the instructions provided by Public Safety personnel to reach a safe place.
- To seek "Tornado Safer Places," get to the lowest level of the building time allows, stay away from areas with windows and glass, and put as many walls as you can between yourself and the outside. In public buildings, bathrooms typically have an additional wall.

Active Shooter:

- Always call 911 as soon as you possibly can.
- Run away from the area, if it is safe to do so, time allows and the gunman is not nearby.
- Hide if the gunman is too close to your location. Find a safer place, lock and barricade doors, turn lights out and cell phones off or to vibrate.
- Fight. As a last resort, resolve to fight the intruder with everything you have at your disposal.

A short video prepared and presented by the Department of Homeland Security can be found at the following [link](#).

Student Accessibility Services:

Student Accessibility Services coordinates the provision of reasonable accommodations for students with physical, emotional, or learning disabilities. Accommodations are individualized, flexible, and confidential and are based on the nature of the disability and the academic environment, in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

Students are encouraged to consult with the Student Accessibility Services staff early in the semester, preferably prior to the first day of class. Current documentation of a specific disability from a licensed professional may be needed. Additional information or appointments are available from Student Accessibility Services, Suite 239 in the Academic Success Center, 656-6848. Details on policies and procedures are available at www.clemson.edu/sds. Accommodation letters must be received by course faculty within 2 weeks of the start of the semester.

Professor Delay:

In unusual circumstances, the professor may be delayed. In keeping with Clemson University policy, students are expected to wait for 15 minutes after the scheduled start of class before departing.

Testing Policy:

Each student is expected to attend all examinations. If a student must miss a scheduled exam, the student must notify the instructor prior to class. Any student who does not obtain prior approval from the instructor will receive a zero on the missed exam.

Text(s):

No textbook is required

Other:

Minimum of 8 GB Memory Key (Flash drive)

Computer (must bring to **ALL** classes)

EHRTutor access (To be provided by instructor)