

# NURS 1400 Syllabus

## Lanham Spring 2020 Topical Outline

Course Title and Course Number: NURS 1400 - **Computer Applications in Health Care**



Term: January 8, 2019 - May 1, 2019

**Class Meeting Location/Time(s)**

**Section 002: Tuesdays, Thursdays, 2:00p - 3:15p**

Faculty: J.Lanham

Department and College:

**College of Behavioral, Social & Health Sciences /School of Nursing**

Instructor Email: [janicel@g.clemson.edu](mailto:janicel@g.clemson.edu)

University Phone Number:(864) 280-9684 **(Best Way To Contact Me via Text)**

Virtual Office Address: **Zoom** **(Best Way To Meet With Me Outside of Class)**

Physical Office Address (Office Number): 425 Edwards Hall

Office Hours: **MAKE AN APPOINTMENT WITH ME!**



## Course 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



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 patients and patient care.

### **Value Statement**

The mission of nursing remains unchanged, however, the daily work of this profession is strongly influenced by informatics. The nursing profession is rapidly changing to keep up with technological and digital advancements in healthcare. As direct caregivers, nurses are on the front lines of patient care and feel the impact of changes in best practices more immediately than other healthcare professionals. Having a clear understanding of this impact, along with hands-on engagement and interactions will serve to enhance nursing practice. Professional registered nurses must now be tech-savvy in order to integrate their knowledge of clinical workflow, and information systems into patient care activities. With these innovations, technology will continue to evolve nursing practice, enhancing quality patient care and healthcare delivery.

### **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 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\*]

\*CT2 artifacts.

## Prerequisites

"There are no prerequisites for NURS 1400."

## Required Materials

No textbook is required.

## Required Technical Skills

To be successful in this course, you must have a minimum working knowledge of your computer system, a web browser, and a word processing program.

For technical assistance with the course site, students should contact [ithelp@clemsontech.edu](mailto:ithelp@clemsontech.edu) or visit [CCIT's website](#)

## Learning Environment

The classroom environment and collegiality between faculty and students is essential in creating a healthy learning environment! Respect is a component of communication, collaboration and of valuing the contributions that both sides bring to the learning environment (student and faculty). Students are expected to show respect by demonstrating **respectful professional behaviors** towards faculty, fellow students and others at all times. Students demonstrating inappropriate and unprofessional behaviors will be dismissed from class. (**Refer to Clemson University's School of Nursing Code of Conduct below**).

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## Grading Policies

The School of Nursing requires that you achieve a minimum grade of 75 before any grade can be "rounded-up". For example, 74.9 does not round up to 75. After achieving a minimum grade of 75, the choice to round up lies with me. The final grade in the course must be 75 as a whole number, not 74.9 in order to receive a grade of a "C." A maximum grade on any graded item is 100.

## Late Work

If you are absent, it is your responsibility to obtain material missed during that class period. Assignment due dates will be posted on Canvas unless otherwise stated. Assignments must be completed and submitted on time by the due date (EST) for full credit. Missing submissions will be graded as 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 screenshot 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.

## Major Assessment Activities



Weekly class assignments and attendance (Class Participation grade) will account for 10% of the course grade. Students who do not complete weekly assignments or who fail to meet assignment deadlines will receive a zero (0 points) for that specific assignment. If a student has 3 or more late or incomplete assignments, the student will automatically receive a zero (0) for the entire 10% of the class participation grade. Major assessment activities, e.g The Nursing Innovation Project (Milestones 1, 2,3 and the CCTSC) will be deducted by 5% per each day late up to a total of 15%. After 3 days, the assignment grade will result in a zero (0).

Any exam that was scheduled at the time of a class cancellation due to inclement weather will be given at the next class meeting unless contacted by faculty. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless contacted by faculty. Any extension or postponement of assignments or exams will be posted within 24 hours of the weather-related cancellation via Canvas.

### Major Assessment Activities

Course Topics	Assessment	Weight/Points	Due Date(s)	Short Description
	<u>Nursing Innovation Project [3 Milestones]</u>	47%	CT2 Paper (Draft) CT2 Paper: (Final) Makerspace	M01: Problem Identification 7% M02: CT2 Paper (Draft) M02: CT2 Paper (Final) 20% M03: Makerspace 20%
	CCTST	3.0%	(Posttest)	Designed to permit test-takers to demonstrate the critical thinking skills required to succeed in settings where solving problems and making decisions by forming reasoned judgments are important. Used throughout the United States and in many countries and languages

				around the world, the CCTST has been proven to predict strength in critical thinking in authentic problem situations and success on professional licensure examinations.
	Class Participation (Attendance, Weekly Class Assignments)	10%		Attendance, Weekly Assignments)
Nursing Informatics Information Skills Critical Thinking Makerspace Teamwork & Collaboration Ethical & Legal Issues	Midterm Exam	20%		Online, open notes
Patient Safety Electronic Health Record (EHR) Artificial Intelligence mHealth	Final Exam	20%	8am-10:30am Watt 313	Online, open notes

### Nursing Innovation Project

The purpose of the Nursing Innovation Project is to develop prototypes for possible solutions to “real” healthcare problems. This project should help nursing students create health technologies allowing them to engage in the design and development of healthcare devices. This Nursing Innovation Project is based on ideas talked about in [The Future of Nursing IOM Report \(2010\)](#). This report calls on nurses to do more than just talking about new ideas for improving health and health care. It states that nurses need to be able to turn their ideas into a product that they can hold in their hands. It is a requirement that your final Nursing Innovation Project must be showcased at Makerday [TBA].

## Milestone 01: Problem Identification (The Interview)

Interview a healthcare provider, a patient and/or care provider. Also, feel free to use your resources, faculty, and nursing students if needed. Identify a “real” problem in the delivery of healthcare and create a prototype to improve the problem in a Healthcare Makerspace. Problem identification counts as 5% of your final grade. The topic you choose should be one which can be researched and meets the following criterion:

Clearly define the problem [Be specific]

- Why is this a problem in healthcare?
- How is the problem handled today?
- Identify present-day solutions

Identify the healthcare setting:

- Hospitals
- Public health centers
- Schools
- Homes

Identify the area your project will address:

- Direct patient care
- Health promotion
- Patient education
- Coordination of care

## Milestone 02: The Critical Thinking [CT2] Paper:

Write a critical thinking paper about the healthcare problem identified in Milestone 01. Conduct a literature search for recent (2014-2019) scholarly articles about the healthcare problem. Make sure the research includes both the pros and cons of the problem 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 20% of the total paper grade. Therefore, 15% draft + 85% final = CT2 paper grade].

## Milestone 03: The Makerspace Activity



This Makerspace Activity will be a collaboration between the Clemson University School of Nursing, The HIVE: [Health InnoVation Exchange] and the **Clemson Makerspace**. Each student will complete training in using the Clemson Makerspace. Then groups will create a prototype project [include 3D printing] as a possible solution to the identified patient problem. Students will then create a final Adobe Spark project and submit the link. Make sure you include a Peer Evaluation for each group member. Students are also required to display their final projects at the Clemson Makerday [date TBA]. Makerday is an opportunity created by the Clemson Makerspace community for any student, club, or organization to show off things they have created over the semester. 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.

### Communication and Interprofessional Skills:

Team-Based activities (group work) strengthen communication and interprofessional skills, vital competencies necessary for:

- Producing highly effective that optimize the use of information, people, and resources to achieve the best clinical outcomes for patients.
- Increasing team awareness and clarifying team roles and responsibilities.
- Resolving conflicts and improving information sharing.
- Eliminating barriers which enhance teamwork and collaboration (*TeamSteps: The Agency for Healthcare Research and Quality (AHRQ)*)

## Grading Breakdown

The following table breaks down the point ranges/percentages associated with each letter grade.

Grading Scale

Letter	Points/Percentages
A	90-100
B	80-89
C	79-75
D	74-70
F	69-Below

## . Course Feedback

Student Assessment of Instructors [Link](#)

## How to be successful in this course

Student Responsibilities:

1. **Attendance:** The academic resources of Clemson University are provided for the intellectual growth and development of students. Class attendance is **critical** to the educational process; therefore, you should attend all scheduled courses in order to attain and meet course objectives. If you are absent, it is **YOUR** responsibility to obtain material missed during that class period. There are no excused absences, but I understand "life happens." In the event of a class absence, you should make contact with me using the Notification of Absence (NOA) feature on Canvas, **before** the missed class takes place. Using the NOA is particularly important if you would like to submit missed assignments for full credit. Otherwise, missed assignments may only be submitted for partial credit. In the

event of an emergency, a text message is appropriate. It is preferable to speak with me regarding any scheduled absence(s) as soon as possible and develop a plan for any make-up work, in advance. It is your responsibility to secure documentation of emergencies if required. A student with an excessive number of absences (three or more) may be dropped from the course at my discretion. You are required to wait 15 minutes for the instructor to arrive for class. If the instructor has not arrived within 15 minutes, the students should attempt to contact the instructor (864-280-9684) to determine if other arrangements have been made for the class meeting.

2. **Student Engagement:** You are expected to **actively** participate in class/online discussions. Cell phones and other electronic devices are to be on "vibrate mode" so as not to disrupt class "flow."
3. **Coursework:** Complete and submit high-quality work timely.

## Course and University Policies

### Attendance

Because privacy regulations stipulate that faculty and staff communicate with students through authorized University channels, use your University email account (includes Gmail) or Canvas's messaging system to contact me.

Canvas allows you as a student to quickly notify instructors of an absence (NOA - Notification of Absence [Link](#)) from class and provides set categories (e.g. court attendance, illness, family illness or death, military duty, hospitalization, university function, religious observance). This does not serve as an excuse from class but allows students to communicate with instructors (all or some, of their choice). Please use the NOA to inform me about class absences. You may text/email me initially, especially if something comes up short notice. I do ask that you submit an official NOA in order to submit missed assignments for full credit and for recordkeeping.

Ordinarily, there are no excused absences from either class or clinical laboratories. However, it is recognized that students must be absent from time to time. Professional persons demonstrate reliability and dependability in these matters by:

1. informing appropriate persons when and why they are going to be absent by initiating arrangements for makeup work (if appropriate) with faculty.
2. Students should try to overcome minor indispositions that are not contagious and that do not result in decreased safety of the student's performance in class. However, please do not attend class or clinical laboratories if ill. For example, students who have colds, flu, or other contagious illnesses are not expected to attend class or clinical laboratories. Notification of class absences should be in a timely manner.
3. Grave illness or death of close family members is a legitimate reason for absence. Attendance at a wedding or other celebrations, except under extraordinary circumstances, are not.
4. Attendance at regularly scheduled University functions involving students' participation e.g. Tiger Band, Rally Cats, Clemson Cheerleader are examples of absences which must be negotiated between the student and the faculty member.
5. Attendance at state conventions or other professional meetings, thereby necessitating absence from class, may be approved based on students' grade point average, and with approval by the instructors whose classes are missed, and the Director of the School of Nursing.

### **Academic Continuity Plan :**



Clemson has developed an academic continuity plan for academic operations. An E-Learning Day will be conducted on Thursday, August 29, 2019, with a real-time test of the academic continuity plan. Our class will be affected since our class time is held on Thursdays. The class learning activities will be conducted in a virtual (online) format. The University issues official disruption notifications through email/ www/ test notification / social media. Navigate to Clemson Canvas (See links below), where you will find important the E-learning assignment posted. This learning activity will be due August 29, 2019 11:59 PM.

- Primary access link: <http://www.clemson.edu/canvas>
- Secondary access link, if needed: <https://clemson.instructure.com/>
- You can also use the Canvas Student App.

### Student Accessibility Services

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know, and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing [studentaccess@lists.clemson.edu](mailto:studentaccess@lists.clemson.edu), or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged – drop-ins will be seen if at all possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student's responsibility to follow this process each semester. You can access further information at the [Student Accessibility Services Website](#) and the [Office of Access and Equity Website](#).

## Email Policy / Response Time

Because privacy regulations stipulate that faculty and staff communicate with students through authorized University channels, use your University email account or Canvas's messaging system to contact me. You can expect a response to your email inquiries within 24 hours, excluding weekends and university holidays. Text messages should receive an immediate response. Expect delays late evenings, weekends, & holidays.

### Copyright

All materials found in this course are strictly for the use of students enrolled in this course and for purposes associated with this course; they may not be retained or further disseminated. Clemson students, faculty, and staff are expected to comply fully with institutional copyright policy as well as all other copyright laws.

## Privacy Policy

This course is designed with your privacy in mind. If, however, you feel that an assignment or technology tool undermines your right to privacy, please contact me immediately. We will work together to determine an alternative assignment that will help you achieve the course learning outcomes.

## Online Conduct

Appropriate online academic conduct means maintaining a safe learning environment based on mutual respect and civility. All participants in Clemson courses are expected to behave professionally by adhering to these standards of conduct:

- Never transmit or promote content known to be illegal.
- Respect other people's privacy as well as your own.
- Forgive other people's mistakes.
- Never use harassing, threatening, embarrassing, or abusive language or actions.
- Be friendly, positive and self-reflective. Think before you *write*. Do not respond when you are angry. If you believe critique is necessary, be sure that it is constructive. Reread what you have written to be sure it is positive. Remember that you are communicating with people who do not have the advantage of seeing your body language or hearing your voice inflections, and who may interpret your message differently than you intended.
- Use proper titles and language. Use appropriate titles for recipients. Do not use slang or profane words. Do not use caps lock when typing as this can imply shouting.
- Use effective communication. Again, think before you write. Reread before you send. Be sure that what you have written is clear, concise, and respectful.
- Demonstrate professionalism. Avoid using characters like smiley faces and instant message abbreviations. Remember to say please and thank you. Remember that you are judged by the quality of your writing. Spelling and grammar do count.
- Ask for clarification. If you are unsure of the meaning of a communication, then ask for more information

*Adapted from Top Five Rules of Netiquette in an Online Course by Laurie Patsalides*

Online communication that fails to meet these standards of conduct will be removed from the course. Repeated misconduct may result in being blocked from online discussions, receiving a grade penalty, or being dismissed from the course. Such misconduct in the online environment may also be reported to officials for appropriate action in accordance with University policy. If you ever encounter inappropriate content in our course, please contact me with your concerns.

### **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 shall not tolerate lying, cheating, or stealing in any form. A simple definition of plagiarism is when someone presents another person's words, visuals, or ideas as his or her own. The instructor will deal with plagiarism on a case-by-case basis. I will use, at my discretion, the Plagiarism Resolution Form. All infractions of academic dishonesty will be reported to Undergraduate Studies for resolution through that office.

See the **[Undergraduate Academic Integrity Policy](#)** website for additional information about academic integrity at Clemson.

### **Academic Grievances**

Students are advised to visit the **[Ombuds' Office](#)** prior to filing a grievance. After discussion with the undergraduate academic ombudsman, students should contact Undergraduate Studies (656-3022) for assistance filing official paperwork.

### **Non-Discrimination**

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 also serves as 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 designated by Clemson University to oversee its Title IX compliance efforts. Please consult the **University's Title IX policy** for full details.

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## **Student Support and University Policies**

### **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.

What To Do If There Is An Active Shooter On Campus **[Link](#)**

## **Important Dates**

### **Academic Calendar**

#### **Spring 2020**

##### **January**

- Jan 6, Mon  
Orientation
- Jan 6, Mon - Jan 7, Tue  
Late enrollment
- Jan 8, Wed  
Classes begin
- Jan 14, Tue  
Last day to register or add a class or declare Audit
- Jan 20, Mon  
Martin Luther King Jr. holiday
- Jan 22, Wed  
Last day to drop a class or withdraw from the University without a W grade
- Jan 29, Wed  
Last day to apply for May commencement

## February

- Feb 19, Wed  
Academic Continuity Exercise (Physical instructional sites will not close, but all face-to-face instruction will be moved to online modality.)
- Feb 28, Fri  
Last day for instructors to issue midterm evaluations

## March

- Mar 13, Fri  
Last day to drop a class or withdraw from the University without final grades
- Mar 16, Mon - Mar 20, Fri  
Spring break

## April

- Apr 4, Sat - Apr 11, Sat  
Honors and Awards Week
- Apr 6, Mon  
Registration for fall term begins
- Apr 23, Thu - Apr 24, Fri  
Classes meet; exams permitted in labs and one-hour courses only
- Apr 27, Mon - May 1, Fri  
Examinations

## May

- May 4, Mon  
9:00 A.M.--Deadline to submit candidate grades
- May 6, Wed  
9:00 A.M.--Deadline to submit other grades
- May 6, Wed  
Candidates for commencement may access grades
- May 7, Thu - May 8, Fri  
Commencement
- May 7, Thu  
Doctoral Hooding at the Brooks Center

