

# Course Syllabus - NURS 5324 Health Care Informatics

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## Your Faculty

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## Welcome to NURS 5324 - Health Care Informatics!

Welcome to Health Care Informatics! Did you know that informatics has been around since the 1800's? Florence Nightingale, frequently termed and widely regarded as the “Mother of Modern

Nursing,” was one of the first nursing informaticists. She was always seeking better patient data to guide her work. And, data collection is the building block of informatics. The science and practice of nursing informatics integrates nursing with information and communication technologies to promote the health of people, families, and communities worldwide. In this course, you will learn various ways that informatics and technology support health care professionals. Additionally, you will learn both the theoretical and practical issues, and how all nurses, regardless of specialty can use informatics to support their practice. Health care informatics has the potential to reduce duplication, costs, and errors while improving communication between providers, integration of services, and patient safety.

The structure of this course has been arranged in **eight Modules**, located in the “**Modules**” tab in Canvas. **Module 1** provides an introductory foundation of health care informatics, examining the science of nursing, information, and computer science, the historical perspective as well as informatics and evidence-based practice. In **Module 2**, we will review the various perspectives on nursing informatics. **Module 3** will examine the cognitive science and legislative aspects as well as an overview of the Internet: In part I, we will review the history and structure and in part 2, we will review the services and issues. **Module 4**, also has two parts, in both parts we will focus on informatics in health care education. In **Module 5**, we will review informatics in patient care settings. **Module 6** will seek to understand telemedicine and other health care applications by reviewing nursing informatics practice applications in the delivery of care. **Module 7** will focus on informatics and health care administration. Finally, in **Module 8**, we examine research applications. This is an exciting module as we will review research as well as explore “Big Data!” Lastly, we will end with the exploring the **Future of Informatics!**

## **Course Syllabus - NURS 5324 Health Care Informatics**

### **Course Description**

This course prepares the student to utilize informatics and health care technologies in the management of individuals, groups and organizations for the improvement of patient outcomes.

**Prerequisites:** Admission to MSN Program.

**Course Hours:** 3 credit hours

**Class Time:** Internet class with no scheduled class meetings. Course is conducted in Canvas Learning Management System.

**Placement in Curriculum:** None

### **Student Learning Outcomes**

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

1. Analyze current and emerging technologies to optimize safety, cost effectiveness and health outcomes.
2. Utilize select theories that guide the application of informatics in health care and health education.
3. Promote policies that incorporate ethical principles and legal standards in the use of health and information technologies.

## **Course Topics**

### **I. Building Blocks of Nursing Informatics of Knowledge**

- Introduction to Information, Information Science, and Information Systems
- Computer Science and the Foundation of Knowledge Model
- Informatics and Evidence-based Practice

### **II. Perspectives on Nursing Informatics**

- History and Evolution of Nursing Informatics
- Theoretical Issues for Health Care Informatics
- Theories
- Standardized languages

### **III. Cognitive Science and Legislative Aspects**

- Introduction to Cognitive Science and Cognitive Informatics
- Legislative Aspects of Nursing Informatics: HITECH and HIPAA
- Ethical Applications of Informatics
- Nursing Informatics and Knowledge Management
- Review: The Internet
- Description
- Structure
- Portals
- Security
- Dashboard
- Legal & ethical issues for health care professionals

### **IV. Informatics in Health Care Education**

- Nursing Informatics and Nursing Education
- QSEN competencies
- TIGER initiative
- Online instruction
- Social networking
- Simulation, Gaming Mechanics and Virtual World in Nursing Informatics Education

### **V. Informatics in Patient Care Settings**

- The Electronic Health Record and Clinical Informatics
- Informatics Tools to Promote Safety and Quality Outcomes
- The EMR and the EHR

- HHS meaningful use criteria
- Next generation nursing systems
- Health data storage and exchange
- Telemedicine
- Clinical imaging
- Automated staffing and workload systems
- Quality assurance
- Social, ethical and legal issues related to patient care settings

#### VI. Nursing Informatics Practice Applications: Care Delivery

- Patient Engagement and Connected Health
- Using Informatics to Promote Community/Population Health
- Telenursing and Remote Access Telehealth Trends and directions for the future

#### VII. Nursing Informatics Administrative Applications

- Systems Development Life Cycle: Nursing Informatics and Organizational Decision Making
- Administrative Information Systems
- Workflow and Meaningful Use

#### VIII. Research Applications of Nursing Informatics

- Nursing Research: Data Collection, Processing, and Analysis
- Data Mining as a Research Tool
- Translational Research: Generating Evidence for Practice
- The Art of Caring in Technology Laden Environments
- Big Data

#### Future of Informatics

### **Required Textbooks**

American Psychological Association. (2009). *Publication manual of the American Psychological Association* (6th ed.). Washington, D.C.: Author. ISBN: 1433805618

McGonigle, D., & Mastrian, K. G. (2018). *Nursing informatics and the foundation of knowledge* (4<sup>th</sup> edition). Burlington, MA: Jones & Bartlett. ISBN: 9781284121247

### **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 “Course Information” located in Modules in Canvas.

## Grades and Grading

Specific guidelines and grading criteria for all assignments are located 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 expected to achieve an average of 80% (B) to successfully complete the course.

Criteria for Evaluation:	Percentage of Grade
Current Innovation Assignment	25%
Application: Role Specific Data Analysis (Excel Part 1 & 2)	25%
Mid Term (12.5%) and Final Quiz (12.5%)	25%
Big Data Paper and Article Part 1 & Part 2	25%
Total	100%
ePortfolio	Optional

## 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 Turn-In Process:

All assignments will be submitted through the “Assignments” tab or can also be submitted in the Modules tab in Canvas unless otherwise indicated, such as the Discussions for the “Big Data” paper/article. Please use the following process to prepare and submit assignments:

- Prepare your assignment using Microsoft Word unless otherwise directed. There is one assignment that you will create using Padlet and your three Application assignments will be created in Microsoft Excel. Name your assignment with the following convention: last name first initial, assignment title (ex. LastF\_Assignmenttitle).
- Access the “Assignments” tab (or in the Modules tab) and click on the Assignment link. Number 1- shows the assignment instructions.
- Number 2- is where you add your comments and attach your completed assignment.
- Number 3 - when all attached files (your completed assignment files) are uploaded, click submit.

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 scholarlyness). It is expected that all assignments will be completed in a **timely manner**, unless arrangements have been made by you and your faculty. Course assignments are due per the course calendar. No extensions are given without faculty prior approval. **Late policy:** 5% will be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty.

**Current Innovation Assignment:** Students will identify a health care technology that is currently used in the healthcare. Instructions and grading criteria are posted in the “Assignments” tab.

- **Application - Role Specific Data Analysis:** Learning how to effectively use spreadsheets is a must for all nursing leaders not just those in an informatics track. Whether it is to collect, monitor, and report on data or do advanced data analysis, having skills in using spreadsheets will benefit the practitioner, educator, and executive. For this 2-part assignment, you will be using Microsoft Excel, but the skills and understanding apply to any spreadsheet applications. We will use data sets that are role specific. A pre- and post- assessment will also be included. All UT Tyler students have access to Office 365 at <https://www.uttyler.edu/it/office365/365-students.php> <https://www.uttyler.edu/it/office365/365-students.php> Starting with the basics these assignments focus on increasing your understanding and ability to conduct and interpret data analysis.
- **Mid-term and Final Quiz:** These two quizzes will help your learning as you may take them as many times as you wish. The highest score received prior to the due date will be the one that is recorded. \*Please note: There are self-assessment quizzes for each Module to “test your knowledge.” While these quizzes are non-graded, they are optional; however, I would highly recommend that you consider taking the quizzes to assess your current knowledge of the content Modules.
- **Big Data Paper – Part 1 (90%):** View the “PBS Nova The Human Face of Big Data Life Documentary” posted in the “Assignments” tab. Next, access the UT Tyler Library CINAHL database using the search terms provided on the instruction sheet (in the “Assignments” tab) and locate a journal article on “Big Data.” Students will upload a two-page typed paper which will comprise of three paragraphs. First paragraph: Summarize your article in one paragraph. Second paragraph: Document your thoughts regarding the required video, “PBS Nova The Human Face of Big Data Life Documentary.” Third paragraph: Type your reflections regarding the ethics and future of “Big Data.” Upload the paper to “Assignments” and submit via the “Assignments” tab. Please refer to the grading rubric posted in the “Assignments” tab. Post your article to “Big Data” Discussion. **Big Data Paper – Part 2 (10%):** Respond to a minimum of two of your peers' articles in the “Big Data” Discussion.
- **ePortfolio:** ePortfolio is an optional non-graded assignment. The purpose of an ePortfolio is to showcase your work to a potential employer. The ePortfolio option is available through Canvas.

## Written Assignments

TurnItIn is a feature provided by Canvas that is designed to detect plagiarism or non-original student work. This feature is set up so that when you submit papers, they are automatically sent through TurnItIn. 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 TurnItIn 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 11:59 p.m. Central Standard Time on the due date.

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

## Email

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.

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.

I will make every effort to respond quickly to your emails. Generally speaking, I check email twice a day during the work week. I generally do not respond to weekend emails until Monday morning. Please note, there is one caveat: Technical problems in email systems may slow down responses. My priority is communicating with you, so if there are any problems, I will work to solve them.

## Technical Information

The following information should be included in your syllabus to give direction to the students on how to obtain technical support should problems arise with Canvas. Also included is a short list of browser plug-ins and other suggested applications that students should make sure they have installed and/or updated.

## Technical Support

If you experience technical problems or have a technical question about this course, please consult Campus Computing Services via the web at <http://www.utt Tyler.edu/ccs/help.php> or via email at [itsupport@patriots.utt Tyler.edu](mailto:itsupport@patriots.utt Tyler.edu) or phone 903.565.5555.

When you email IT Support, please be sure to include a complete description of your question or problem including:

- The title and number of the course.
- The page in question.
- If you get an error message, a description and message number.
- What you were doing at the time you got the error message.
- You may also visit the Help Tab in Canvas HYPERLINK <http://wiki.utt Tyler.edu/display/B8H/Home> for helpful information.

### Plug-ins and Helper Applications

UT Tyler online courses use Java, JavaScript, browser plug-ins, helper application and cookies. It is essential that you have these elements installed and enabled in your web browser for optimal viewing of the content and functions of your online course.

- **Adobe Reader** allows you to view, save, and print Portable Document Format (PDF) files. <http://get.adobe.com/reader/>
- **Java Runtime Environment (JRE)** allows you to use interactive tools on the web. <http://www.java.com/en/download/>
- **Adobe Flash Player** allows you to view content created with Flash such as interactive web applications and animations. <http://get.adobe.com/flashplayer/>
- **Zoom** is a FREE cloud-based service that provides a simple solution for online meetings and video conferences. You can use Zoom to communicate with your instructor and classmates. Follow this link to set up your account: <https://utt Tyler.zoom.us>
- **QuickTime** allows users to play back audio and video files. <http://www.apple.com/quicktime/download/>
- **Windows Media Player** allows you to view, listen and download streaming video and audio. <http://windows.microsoft.com/en-US/windows/products/windows-media-player>
- **RealPlayer** allows you to view and listen to streaming video and audio. <http://www.real.com/>

### Netiquette Guide

"Netiquette" is network etiquette, the do's and don'ts of online communication. Netiquette covers both common courtesy online and informal "rules of the road" of cyberspace. Review and familiarize yourself with the guidelines provided.

<http://www.learnthenet.com/learn-about/netiquette/index.php>

<https://www.utt Tyler.edu/online/files/netiquette.pdf>



## University Policies

The following course policies may be found at the website listed below: absence for religious observance, absence for university-supported trips, services to students with disabilities, grade replacement, state-mandated course drop policy, and Social Security and privacy.

<http://www.uttyler.edu/academicaffairs/files/syllabuspolicy.pdf>

### UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

### Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

### Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

### UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free).

### Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. (For Fall 2018, the Census Date is Monday, September 10, 2018). Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date (September 10, 2018) is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date).
- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment.
- Completing the process for tuition exemptions or waivers through Financial Aid.

### **State-Mandated Course Drop Policy**

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

**Disability/Accessibility Services:** In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Tyler at Texas offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible a diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The **Student Accessibility and Resources** (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.

### **Student Absence due to Religious Observance**

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

### **Student Absence for University-Sponsored Events and Activities**

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

### **Social Security and FERPA Statement**

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

### **Emergency Exits and Evacuation**

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

### **Student Standards of Academic Conduct**

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

- i. "Cheating" includes, but is not limited to:
  - copying from another student's test paper;
  - using, during a test, materials not authorized by the person giving the test;
  - failure to comply with instructions given by the person administering the test;
  - possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
    - using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
    - collaborating with or seeking aid from another student during a test or other assignment without authority;
    - discussing the contents of an examination with another student who will take the examination;
    - divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
    - substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
    - paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
    - falsifying research data, laboratory reports, and/or other academic work offered for credit;
    - taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and

- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially
- ii. “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.
- iii. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
- iv. All written work that is submitted will be subject to review by plagiarism software.

### UT Tyler Resources for Students

- [UT Tyler Writing Center](http://www.uttyler.edu/writingcenter) (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)
- [UT Tyler Tutoring Center](http://www.uttyler.edu/tutoring) (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)
- [The Mathematics Learning Center](http://www.uttyler.edu/math), RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- [UT Tyler Counseling Center](http://www.uttyler.edu/counseling) (903.566.7254)
- [UT Tyler Muntz Library](http://www.uttyler.edu/library) (903 566-7343), Library Liaison for Nursing, Suzanne Abbey (903.566.7165) email: [sabbey@uttyler.edu](mailto:sabbey@uttyler.edu)

Revised 01/18

## Final Notes:

### UT Tyler School of Nursing Computer Requirements:

<http://www.uttyler.edu/nursing/college/student-resources.php>

Graduate students in clinical – the UT Tyler patch is to be worn on the on the front left pocket area of the white lab coat. And, the white lab coat and patch will be worn at the Pinning/Convocation ceremony as well.

### Course Evaluation

UT Tyler may ask you to complete a voluntary evaluation to help them make improvements and adjustments in their overall online learning forums.

Also, an end of semester evaluation specifically for this course will be made available for you to complete in the last week of instruction. Your comments and recommendations will be considered seriously as the course is updated. Your input throughout the semester contributes to our commitment to improve continually the quality and relevance of this course.

### Getting Started

Please refer to the information contained in this Syllabus anytime you have a question regarding the basic course information. After you have read the information posted in the “Course Information” located in Modules, continue to explore all navigational tabs beginning with the “Course Information.” Should you have any questions, please do not hesitate to contact me.

### **Completion Time**

You should expect to spend as much time on an online course as you do in a face-to-face course. As a rough guide, you should plan to spend six to ten hours per week on this course. The actual amount of time will vary from individual to individual. This estimate includes the time you spend in reading, discussions, and assignments.

You will have access to most of the course materials from the start of the course to the end. You may look and study ahead, or go back and review, at any time during the course. All assignments have set due dates. **Due dates are indicated on the Course Schedule and are due on or before 11:59 p.m. Central Standard Time on that date.**

### **Epilogue from Dr. Hermanns**

This course is a fun course. It’s fun because you will have the opportunity to explore exciting, novel, and innovative technologies used in today’s health care arena. And, you will ‘hands-on’ experience with spreadsheets that have been specifically developed for your current program role (MSN Administration, Education, and Family Nurse Practitioner). You will no doubt learn a vast amount of information. We are going have a wonderful and productive semester. Welcome to the course!

All My Best,

*Dr. Hermanns*

## **Getting Started**

Please refer to the information contained in this Syllabus anytime you have a question regarding the basic course information. After you have read the information posted in the “Course Information” menu, you may begin clicking on the Modules menu located on the left-hand navigation bar as well as at the bottom of the Home page.

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