

**STUDENT WARNING:** This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.

# American Public University System

*The Ultimate Advantage is an Educated Mind*

School of Health Sciences  
NURS425  
Informatics and Technology in Healthcare  
Credit Hours: 3  
Length of Course: 8 weeks  
Prerequisite: NURS300

## Instructor Information

*Please refer to the Instructor Profile on the course homepage for your instructor's contact information and biography.*

## Course Description (Catalog)

This course is only open to students who are enrolled in the RN to Bachelor of Science in Nursing (RN to BSN) program. This course explores the role of healthcare technologies in the provision of safe and high quality, patient-centered nursing care. The use of informatics to improve the health of individuals and the delivery of healthcare services will also be examined with an emphasis on patient privacy, confidentiality, and security in a digital age.

(Prerequisite: NURS300)

## Course Scope

This course will discuss the role of informatics in the delivery of healthcare, as well as the ethical and legal ramifications of using technology for patient care. The translation of data into knowledge will be explored.

## Course Learning Objectives

The following objectives are aligned with the RN-BSN Program Outcomes (PO):

1. Examine ethical, legal, privacy and security guidelines that may impact the use of healthcare technology and informatics applications. (PO 2,4,8)
2. Discuss technology solutions to implement the nursing process and to enhance nursing practice and healthcare consumer outcomes. (PO 3,4,5)

3. Identify information and communication technologies to provide safe care to diverse populations in various settings. (PO 2,3,4,8)
4. Determine the role of informatics applications in the collection, monitoring, and translation of data into knowledge. (PO 1, 2, 4)
5. Evaluate the role of health policy and regulatory requirements with the use of technology and informatics applications in healthcare. (PO 4, 7)
6. Examine the integration of telehealth and mobile health technologies to promote positive interactions between patients, interprofessional team members, and healthcare consumers. (PO 1,4)

Module Learning Objectives are located within the course.

Baccalaureate Essentials covered in this course include:

II, III, IV, V, VI, VII, VIII

<http://www.aacn.nche.edu/education-resources/BaccEssentials08.pdf>

### Course Delivery Method

This course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. Online assignments are due weekly as noted on the course outline and can include forum questions and written assignments. Assigned faculty will support the students throughout this eight-week course.

### Course Materials

#### Required Course Textbook:

All required readings and resources are available within MyClassroom.

#### Academic Writing Requirements:

The School of Health Sciences requires use of APA format and style and all students are encouraged to have a current copy of the *APA Publication Manual*. All written assignments are to be submitted in APA format style unless otherwise noted in the assignment directions.

### Evaluation Procedures

#### Discussions

Please join the discussions in each designated week. Replies must be posted in the week due and replies after the end of the each week will not be graded. The Discussions are for student interaction and input should be submitted before the week ends in order to fully participate in the discussions. Students should demonstrate their own knowledge in the discussions and avoid copying and pasting from websites.

**Guidelines:**

- Post the initial response to each discussions by 11:55pm, ET, Wednesday
- Initial responses are to be original in content and demonstrate a thorough analysis of the topic.
- Reply to ***more than 2*** of your classmates in each forum by 11:55pm, ET, Sunday.
- Responses to classmates are significant to advance the discussions.
- All discussions can be accessed in the Discussions section of the course.
- Respond to all questions posed to you in your initial post by instructor and/or peers.

An initial post must precede the response posts to peers. An initial post received after Wednesday 11:55 pm will receive a 10% deduction for each day, for 3 days, prior to discussions being graded. This means the highest grade possible for a late submission of 3 days, is 70%. However, response posts are due by Sunday 11:55 pm. If response posts are not submitted by this time, the discussion is over.

**Written Assignments**

All assignment instructions and grading rubrics are located in the Assignments area of MyClassroom. Assignments are due by 11:55 pm EST on the Sunday of the week they are assigned, or as indicated in the Assignments area.

**Course Grading Outline**

<b>Grading Instrument</b>	<b>Percentage of Final Grade</b>
Introductory Forum	<b>1%</b>
Weekly Forums (Weeks 1, 2, 4, 5, 8)	<b>15%</b>
Locate NI policy in org or find one, what more do you need to do to become competent in NI	
<b>Assignments</b>	
Week 3 Informatics Applications for Patients - Tool or Application - PowerPoint	<b>28%</b>
Week 6 Ethics in Informatics Paper	<b>28%</b>
Week 7 Informatics Applications for health care providers – Tool or Application - PowerPoint	<b>28%</b>
<b>TOTAL</b>	<b>100%</b>

<b>Course Outline</b>				
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>1</b>	Introduction to Informatics and Technology in Healthcare  Informatics Theoretical Foundations	<ol style="list-style-type: none"> <li>1. Define health informatics and the role of nurses</li> <li>2. Discuss the variety of theories and frameworks underlying health informatics</li> </ol>	As assigned	Introduction Discussion  Week 1 Discussion
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>2</b>	Information Systems & Life Cycle  Applications for Professional Practice	<ol style="list-style-type: none"> <li>1. Discuss the variety of information systems available</li> <li>2. Explore the steps necessary for managing the life cycle of a health information system utilizing the nursing process.</li> <li>3. Explore different applications available to enhance patient safety and quality care.</li> </ol>	As assigned	Week 2 Discussion
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(2s)</b>
<b>3</b>	Usability, Safety, and Data Analytics	<ol style="list-style-type: none"> <li>1. Explore the User Experience with health information technology.</li> <li>2. Describe the role of health information technology as it relates to increasing patient safety and quality of care.</li> <li>3. Describe big data and its use in health care.</li> <li>4. Describe the role of informaticists with data management, mining, and analytics.</li> </ol>	As assigned	Week 3 Assignment
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>4</b>	Informatics and Evidence-Based Practice	<ol style="list-style-type: none"> <li>1. Discuss tools and strategies to integrate evidence-based practice into health I</li> </ol>	As assigned	Week 4 Discussion

		<p>information systems and documentation.</p> <p>2. Describe best practices for Evidence-Based Practice collection and dissemination of information.</p>		
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>5</b>	Regulation, Policy, Standards, Ethics, Legal Issues, & Privacy	<ol style="list-style-type: none"> <li>1. Identify the regulatory standards associated with health care informatics</li> <li>2. Examine health informatics policies applicable to health care settings</li> <li>3. Explain ethical and legal implications of health informatics</li> <li>4. Explain privacy and security guidelines</li> <li>5. Identify consequences of security and privacy breaches</li> </ol>	As assigned	Week 5 Discussion
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>6</b>	Informatics & Professional Development	<ol style="list-style-type: none"> <li>1. Examine teaching and learning with technology considering hardware and software.</li> <li>2. Discuss informatics tools supporting professional development.</li> <li>3. Explore simulation in healthcare education.</li> </ol>	As assigned	Week 6 Assignment
<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>Reading(s)</b>	<b>Assignment(s)</b>
<b>7</b>	Global Health Informatics	<ol style="list-style-type: none"> <li>1. Identify international organizations promoting global informatics initiatives.</li> <li>2. Describe global standards and challenges for eHealth.</li> </ol>	As assigned	Week 7 Assignment

Module	Topic	Learning Objectives	Reading(s)	Assignment(s)
8	The Future of Health Informatics & Course Reflection	<ol style="list-style-type: none"> <li>1. Describe health care informatics as a specialty.</li> <li>2. Discuss the future of Informatics in health care</li> </ol>	As assigned	Week 8 Discussion

## Policies

### Nursing Program Policies

#### Assignment and Coursework Grading Policy

Students are expected to submit classroom assignments by the designated due date and to complete the course according to the published class schedule. Failure to submit coursework by the designated due date will result in a ten percent (10%) penalty per day until three (3) days after the coursework is due. Therefore, after three (3) days, the maximum grade the student can achieve with a late submission will be a grade of 70% (C-). If a student is ill, has a family crisis, or will miss scheduled coursework deadlines for any reason, the student shall notify the instructor in advance if at all possible. Assignments will NOT be accepted more than seven (7) days after the due date unless prior arrangements have been made in advance of the due date.

#### Use of Online Sources such as Course Hero

In addition to the university's plagiarism policy, students who are found to have submitted materials plagiarized from any online source, such as Course Hero, will be reported to the university and may fail the course and/or be expelled APUS. Use of said materials is academic dishonesty and will not be tolerated.

#### Self-Plagiarism

Each course in the program has unique course learning objectives designed to build professional knowledge and skills. To accomplish these learning objectives, all work submitted for a course must be original and cannot be a resubmission of one's own previous work. When repeating a course, students must submit newly created work as well.

#### Course Completion and Progression Requirements

Effective September 1<sup>st</sup>, 2015 (For all students who started NURS300 after September 1, 2015, and beyond), to pass the course and progress in the nursing program, students must achieve a final course grade of a 73% (C) or better. In the capstone course, NURS498: Senior Seminar in Nursing Studies, students must achieve a final course grade of an 84% (B) or better in order to pass the course and graduate from the nursing program.

## Communications

### Student Communication

To reach the instructor, please communicate through the MyClassroom email function accessible from the Classlist of the Course Tools menu, where the instructor and students email addresses are listed, or via the Office 365 tool on the Course homepage.

- In emails to instructors, it's important to note the specific course in which you are enrolled. The name of the course is at the top center of all pages.
- Students and instructors communicate in Discussion posts and other learning activities.
- All interactions should follow APUS guidelines, as noted in the [Student Handbook](#), and maintain a professional, courteous tone.
- Students should review writing for spelling and grammar.
- [Tips on Using the Office 365 Email Tool](#)

### Instructor Communication

The instructor will post announcements on communications preferences involving email and Instant Messaging and any changes in the class schedule or activities.

- Instructors will periodically post information on the expectations of students and will provide feedback on assignments, Discussion posts, quizzes, and exams.
- Instructors will generally acknowledge student communications within 24 hours and respond within 48 hours, except in unusual circumstances (e.g., illness).
- The APUS standard for grading of all assessments (assignments, Discussions, quizzes, exams) is five days or fewer from the due date.
- Final course grades are submitted by faculty no later than seven days after the end date of the course or the end of the extension period.
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### University Policies

Consult the [Student Handbook](#) for processes and policies at APUS. Notable policies:

- [Drop/Withdrawal Policy](#)
- [Extension Requests](#)
- [Academic Probation](#)
- [Appeals](#)
- [Academic Dishonesty / Plagiarism](#)
- [Disability Accommodations](#)
- [Student Deadlines](#)
- [Video Conference Policy](#)

### Mission

The [mission of American Public University System](#) is to provide high quality higher education with emphasis on educating the nation's military and public service communities by offering respected, relevant, accessible, affordable, and student-focused online programs that prepare students for service and leadership in a diverse, global society

## **Minimum Technology Requirements**

- Please consult the catalog for the minimum hardware and software required for undergraduate and graduate courses.
- Although students are encouraged to use the Pulse mobile app with any course, please note that not all course work can be completed via a mobile device.

## **Disclaimers**

- Please note that course content – and, thus, the syllabus – may change between when a student registers for a course and when the course starts.
- Course content may vary from the syllabus' schedule to meet the needs of a particular group.