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American Public University System

The Ultimate Advantage is an Educated Mind

School of Health Sciences
Course Number: NURS504
Course Name: Informatics and Technology
3 Credit Hours
Length of Course: 8 weeks
Prerequisite: NURS503

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Instructor Information

Instructor:

Email:

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Course Description (Catalog)

Rapidly changing healthcare systems demand that advanced practice nurses possess knowledge of the effective use of informatics and technology to enhance patient care in a variety of settings. This course provides students with the knowledge and skills necessary to improve patient outcomes through effective use of these technological resources. Topics include

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electronic medical records, data analysis, and safe management of patient care technology, health literacy, and related ethical issues.

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Course Scope

This course is divided into 8 weeks and is designed to provide the learner with knowledge about informatics and technology in the management of individuals, groups, and organizations in the roles of healthcare practitioner, leader, educator and researcher. Learners evaluate a nursing informatics issue and propose a solution. They additionally research an ethical informatics issue and evaluate creative applications commonly used in healthcare.

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Course Objectives

After successfully completing this course, you will be able to:

LO1: Interpret healthcare outcome data for the purpose of identifying and reducing risks and improving healthcare outcomes.

LO2: Analyze the ethical issues related to the use of patient care technology.

LO3: Evaluate the impact of electronic medical records on the delivery of safe and effective patient care.

LO4: Assess the effects of emerging healthcare technologies and their impact on advanced nursing practice and health outcomes.

LO5: Examine both positive and negative aspects of the emergence of technology on the health literacy of patients and families.

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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 by Sunday evening of the week as noted and include Forum questions (accomplished in groups through a threaded forum), examination, and individual assignments submitted for review by

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the Faculty Member). Assigned faculty will support the students throughout this eight-week course.

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Course Resources

Required Course Textbooks

McGonigle, D., & Mastrian, K. (2015). *Nursing informatics and the foundation of knowledge* (3rd ed.). Burlington, MA: Jones & Bartlett Learning.

The School of Health Sciences requires use of APA style and format and each student is required 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.

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Evaluation Procedures

Forum

Students are required to participate in the forums each week. Replies must be posted in the week due and replies after the end of each week will not be graded. The Forums 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 forums and avoid copying and pasting from websites.

Guidelines:

- Post the initial response to each forum by 11:55pm, ET, Thursday.
- Initial responses should be no less than 300 words and include citation to at least 2 credible sources.
- Initial responses are to be original in content and demonstrate a thorough analysis of the topic.
- Reply to at least 2 of your classmates in each forum by 11:55pm, ET, Sunday.
- Replies to classmates should be no less than 200 words.
- Responses to classmates are significant to advance the forum.

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- All forums can be accessed in the Forums section of the course.

[Forum Grading Rubric](#)

Ethics and Informatics Paper

Write a 2,000-3,000 word essay describing an unethical use of electronic health information of which you are aware. It may or may not be an event that took place at your employer. Describe what led up to the event, how it happened, and how it was (or was not) properly addressed by the person(s) in charge of protecting personal health information. Suggest an appropriate method for avoiding such events in the future. Include at least 3-5 scholarly references. The paper should be in APA format.

Your Research Paper will be evaluated against the [Graduate Level Writing Rubric](#).

Creative Applications (Wikis, Blogs, Podcasts, etc.) Assignment

Construct a 1,000 word blog describing your experience and insight on implementing a new electronic health record. Include at least 2 scholarly sources.

Nursing Informatics and Applications Paper

The Centers for Medicare and Medicaid have developed a Prescription Drug Dashboard (PDD) to help nurses and other health care providers improve access to and utilization of prescribed medications, particularly those medications which are very costly. Write a 2,000-3,000 word essay describing your anticipated role as a nurse educator or as a nurse leader in utilizing electronic health data such as the PDD data to improve health care quality, nursing practice, or organizational performance. Include at least 3-5 scholarly references.

Your Research Paper will be evaluated against the [Graduate Level Writing Rubric](#).

Nursing Informatics and Applications Paper Presentation

Prepare a PowerPoint presentation to share your Nursing Informatics Applications Essay with your student peers. Review the presentations of at least 2 of your peers and provide feedback on their ideas and presentation.

Course Grading Outline	
Grading Instrument	% of Final Grade
Discussion Forums	30%
Ethics and Informatics Paper	20%

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Nursing Informatics Applications Paper (Educator or Leader)	20%
Nursing Informatics Applications Paper Presentation	15%
Creative Applications (Wikis, Blogs, Podcasts, etc.) Assignment	15%
TOTAL	100%

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Course Outline

Please see the [Student Handbook](#) to reference the University's [grading scale](#).

Course Outline					
Lesson	Topics	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
1	Introduction to Information, Information Science, & Information Systems Computer Science and the Foundation of Knowledge Model Cognitive Science and Cognitive Informatics	LO1	McGonigle & Mastrian (2015) Chapters 1-4, pp 5-66		-Introductions -Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)

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2	Ethics & Bioethics Ethical Issues & Social Media Ethics & Informatics	LO2	McGonigle & Mastrian (2015) Chapter 5, pp 67-88	Ethics and Informatics Paper	-Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
3	Role of Informatics in Patient Care 21 st Century Nursing Nursing Informatics & Health Policy	LO3	McGonigle & Mastrian (2015) Chapters 6-9, pp 95-168		-Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
4	Nursing Informatics & Organizational Planning and Care Delivery Overview of Information Systems The TIGER Initiative	LO3 LO4	McGonigle & Mastrian (2015) Chapters 10-14, pp 173-244	Creative Applications (Wikis, Blogs, Podcasts, etc.) Assignment	-Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)

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5	The Electronic Health Record Informatics Tools to Promote Safety & Quality Telehealth Supporting Consumer Information & Education Needs The CMS Prescription Drug Dashboard	LO1 LO4	McGonigle & Mastrian (2015) Chapters 15-19, pp 249-348	Nursing Informatics Applications Paper (Educator or Leader)	-Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
6	Nursing Informatics & Nursing Education Simulation in Nursing Informatics Education Games, Simulations, and Virtual	LO1 LO4	McGonigle & Mastrian (2015) Chapters 20-22, pp 353-406		-Forum 1

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Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
	Worlds for Educators				
7	Data Collection, Processing, & Analysis Generating Evidence for Practice Meaningful Use	LO1 LO4	McGonigle & Mastrian (2015) Chapters 23-26, pp 411-458	Nursing Informatics Applications Paper Presentation	-Forum 1
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
8	Emerging Technologies The Foundation of Knowledge Model Revisited Turning the Tables – The Nurse as the HER Consumer	LO4	McGonigle & Mastrian (2015) Chapters 27-29, pp 463-512		-Forum 1

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Policies

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Please see the [Student Handbook](#) to reference all University policies. Quick links to frequently asked question about policies are listed below.

[Drop/Withdrawal Policy](#)

[Plagiarism Policy](#)

[Extension Process and Policy](#)

[Disability Accommodations](#)

Citation and Reference Style

Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

Late Assignments

Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. As adults, students, and working professionals, I understand you must manage competing demands on your time. Should you need additional time to complete an assignment, please contact me before the due date so we can discuss the situation and determine an acceptable resolution. Routine submission of late assignments is unacceptable and may result in points deducted from your final course grade.

Netiquette

Online universities promote the advancement of knowledge through positive and constructive debate – both inside and outside the classroom. Forums on the Internet, however, can occasionally degenerate into needless insults and “flaming.” Such activity and the loss of good manners are not acceptable in a university setting – basic academic rules of good behavior and proper “Netiquette” must persist. Remember that you are in a place for the rewards and excitement of learning which does not include descent to personal attacks or student attempts to stifle the Forum of others.

- **Technology Limitations:** While you should feel free to explore the full-range of creative composition in your formal papers, keep e-mail layouts simple.
- **Humor Note:** Despite the best of intentions, jokes and especially satire can easily get lost or taken seriously. If you feel the need for humor, you may wish to add “emoticons” to help alert your readers: ;-), :), ☺

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Disclaimer Statement

Course content may vary from the outline to meet the needs of this particular group.

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Online Library

The Online Library is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Online Library provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to librarian@apus.edu.

- ***Charles Town Library and Inter Library Loan:*** The University maintains a special library with a limited number of supporting volumes, collection of our professors' publication, and services to search and borrow research books and articles from other libraries.
- ***Electronic Books:*** You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- ***Electronic Journals:*** The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- ***Tutor.com:*** AMU and APU Civilian & Coast Guard students are eligible for 10 free hours of tutoring provided by APUS. [Tutor.com](http://tutor.com) connects you with a professional tutor online 24/7 to provide help with assignments, studying, test prep, resume writing, and more. Tutor.com is tutoring the way it was meant to be. You get expert tutoring whenever you need help, and you work one-to-one with your tutor in your online classroom on your specific problem until it is done.

Request a Library Guide for your course (<http://apus.libguides.com/index.php>)

The AMU/APU Library Guides provide access to collections of trusted sites on the Open Web and licensed resources on the Deep Web. The following are specially tailored for academic research at APUS:

- Program Portals contain topical and methodological resources to help launch general research in the degree program. To locate, search by department name, or navigate by school.

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- Course Lib-Guides narrow the focus to relevant resources for the corresponding course. To locate, search by class code (e.g., SOCI111), or class name.

If a guide you need is not available yet, please email the APUS Library: librarian@apus.edu.

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Turnitin.com

Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases, professors may require students to use Turnitin.com. Typically, the course professor will establish a Turnitin.com access code for his/her classes. If the code has not been established, those who wish to use Turnitin.com may ask their professor to establish the code.

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