

**Wright State University-Miami Valley
College of Nursing & Health
Summer 2012**

COURSE NUMBER/TITLE: NUR-755-C90 – Informatics in Healthcare

PLACEMENT IN CURRICULUM: Graduate Level

COURSE LOCATION: <http://pilot.wright.edu>

CATALOG DESCRIPTION: Nursing 755 is an introduction to trends and issues of informatics in health care with an emphasis on effective use of hardware and software in information technology. Laboratory experience is included.

TEXTBOOK: McGonigle, D., & Mastrian, K. (2012). *Nursing informatics and the foundation of knowledge* (2nd ed.). Sudbury, MA: Jones and Bartlett.

CREDIT HOURS: 2 credit hours (lecture and laboratory hours)

COURSE FACULTY: William Perry, MA, RN
Office: (937) 914-7371 (Office hours by appointment)
Home: (937) 429-5807
Cell: (937) 572-2829
Email: wperry@gmail.com

COURSE OBJECTIVES:

1. Interact effectively with hardware and software computer components.
2. Analyze trends, issues and ethical considerations in using informatics in health care delivery.
3. Use a database program to process a simple data set.
4. Evaluate regional and national networks and databases.
5. Examine national standards for informatics.

TEACHING METHODS: On-line lecture, discussion and integration of reading assignments

EVALUATION METHODS:

Online participation	5
P.A.T.C.H. Assessment Scale	5
Quiz 1	15
Quiz 2	15
WWW evaluation	20
Database design	20
PowerPoint presentation	20
Total points	100

Complete P.A.T.C.H. Assessment Scale: 5 points

Include your personal objectives of what would you would like to accomplish this quarter.

Online participation: 5 points

Participation percentage is based on the *quality*, not simply the amount of your input. You are expected to contribute a substantive and thoughtful response to any discussion questions that are posted. "I agree" is not a substantive and thoughtful response. All responses are due by Monday at 8 am of the following week.

Website evaluation: 20 points

Using criteria from class and any additional criteria found in the literature, develop a framework to evaluate **patient/consumer** (NOT health care provider) web sites. The development of this framework should be based on a review of the literature and pertinent WWW resources. Write one small paragraph describing each criterion that substantiates its importance/relevance. Use APA format and be certain to reference your work. Remember: quality not quantity! After you develop the evaluation framework, find **three** patient information web sites on your topic of interest and evaluate each site (each site should be related to the same topic). Either in text format or in a table, describe the results of your evaluation of these websites using the criteria and describe why you feel the website does or does not meet the criteria. Also summarize your findings related to the appropriateness of each website for consumers based on your evaluation. End with a brief summary of the role of the master's prepared nurse in terms of consumer websites. Limit this assignment to 3-5 double-spaced pages in APA format, excluding references.

Database design: 20 points

Identify a clinical nursing problem that can be solved by applying knowledge gained in NUR 755. Arrive at a computer generated solution to the identified problem. Feel free to consult with computer experts and informaticists. Briefly discuss the problem, your solution and how the database assisted in addressing the issue/problem. To receive credit, you must develop a dummy table, enter data, and submit. **The assignment must be done using either Excel or Access. No credit will be given for only the discussion of the problem. Load both the database and the word document in the course drop box.**

For sample problems, refer to Summers, S. et al. (1990). Creative use of microcomputer software by graduate nursing students. Computers in Nursing, 8, 198-200.

Use the following headings:

- Introduction:
- Discussion of the Problem/Issue
- Discussion of the Solution Provided by the Collection of Data:
- Sample of the Database
- References

PowerPoint presentation: 20 points

You may work in groups of up to 4. Decide on a group leader.

From the Test Content Outline of the ANCC Informatics Exam located at <http://www.nursecredentialing.org/Documents/Certification/TestContentOutlines/Informatics-TCO2012.aspx> choose one of the topic areas and develop an on-line presentation would take 20 minutes to deliver orally in a live classroom. The presentation must include a section which addresses why this is important for a masters prepared nurse and at least one slide that lists references used to develop your presentation. Creativity is encouraged, including audiovisuals and other presentation enhancements.

Additional Information:

- **Do not rely solely on textbooks for your references.** The expectation is that you will review the current literature on your topic. Use primary and not secondary literature sources. Use of websites and other current information is encouraged.

- Information presented must not be a duplicate of material covered in lecture. You are expected to communicate, be aware of the content of the presentation, and organize the flow of information.
- Remember — this is a GROUP grade. Work can be divided up in the group with one person obtaining articles, one making visual aids, another can formulate the outline, etc. as your group sees fit.
- After the group leader contacts me with the names of the group members, an on-line discussion group will be provided in the on-line course management system to aid your communication with one another (Check the Pilot 'Discussion' area for your group topic where you will be able to work with your group on your assigned topic).

Reminder: All graduate students must submit a program of study to be eligible for graduation. Program of study forms are available in 160 UH. You must also apply for graduation the quarter before you plan to graduate.

The information contained within this document is informational only, and not intended to be contractual. Your assignments are to be done as an individual effort. The University Guidelines for Academic Integrity apply to all work for the class. Please refer to your student handbook for general policy and procedures regarding student conduct. You are responsible for knowing these policies.

Class Schedule

Be sure to check the Pilot Course Management site for details of each week's assignments under the Course Content. In addition, be sure to check the announcements section for news and updates.

Class	Topic	Readings/Assignments
Class 1	Computer hardware & software, networks, mobile computing	McGonigle & Mastrian: Chapters 3, 15
Class 2	The WWW as a healthcare resource for professionals and consumers.	McGonigle & Mastrian: Chapter 20 P.A.T.C.H. Assesment Scale due 6/18
Class 3	Presentation and collaboration tools	McGonigle & Mastrian: Chapter 11
Class 4	Databases and spreadsheets	McGonigle & Mastrian: Pages 221-226
Class 5	Nsg Informatics as a specialty	McGonigle & Mastrian: Chapters 6, 8 Complete Quiz 1 by 7/16
Class 6	EMRs and PHRs	McGonigle & Mastrian: Chapters 17,18
Class 7	Telehealth	McGonigle & Mastrian: Chapters 19
Class 8	Simuations, games, virtual worlds	McGonigle & Mastrian: Chapter 23, 24, 25 WWW evaluation assignment due 7/30
Class 9	Tiger Summit	Database design assignment due 8/6
Class 10	Personal Learning Environments	PowerPoint presentation due 8/13 Complete Quiz 2 by 8/15