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 healthcare with an emphasis on effective use of hardware and software in information technology. Laboratory experience is included.


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

COURSE FACULTY: William Perry, MA, RN
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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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Online participation</td>
<td>5</td>
</tr>
<tr>
<td>P.A.T.C.H. Assessment Scale</td>
<td>5</td>
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<tr>
<td>Quiz 1</td>
<td>15</td>
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<tr>
<td>Quiz 2</td>
<td>15</td>
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<tr>
<td>WWW evaluation</td>
<td>20</td>
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<tr>
<td>Database design</td>
<td>20</td>
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<tr>
<td>PowerPoint presentation</td>
<td>20</td>
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<tr>
<td>Total points</td>
<td>100</td>
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</table>
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 complete paragraph discussing 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 explain 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 instructors. 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.


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.nursecredentiaing.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 UW. 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.

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