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Nursing Syllabi Fall 2018

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2018

### 854 Advanced Informatics

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## College of Professional Sciences School of Nursing Fall Semester 2018

**Course Number & Title:** NURS 854 Advanced Informatics

**Number of Credits:** 3 Semester Credits

### Course Description:

The focus is to improve clinical and administrative decision making through an in-depth understanding of healthcare informatics. Emphasis is on technology based health applications which support clinical, administrative, research, and educational decision making enhancing the efficacy of nursing endeavors. Current trends and issues in using, designing, and managing health care information systems will be examined.

### Course Objectives

1. Analyze past, current, and anticipated future developments in healthcare informatics
2. Evaluate the relationship between pertinent theories, such as communication, and healthcare information technology as they apply to health care delivery and research.
3. Synthesize knowledge from various information sources to increase accessibility and usability of health care information.
4. Discuss the legal, ethical, social, and professional issues associated with health care and nursing information systems.
5. Discuss the structure of computer languages and architecture used in healthcare informatics systems. (medical and nursing taxonomies, medical coding and classification systems)
6. Use computer programs to access and manage a variety of sources of data, information, and knowledge.
7. Apply system life cycle principles for administrative and clinical computing environments.
8. Synthesize literature relevant to health care and nursing informatics.

### Time & Location

**On campus:** 7-9:30pm Cohen Center 187

**Off campus:** Canvas/Zoom Meeting ID: 208-643-3019

### Faculty

Terri Enslein RN, MSN

Email: ensleint@xavier.edu

Cell Phone: 513-252-8428 (text messaging preferred)

Work Phone: 513-745-3148

### Teaching strategies

Web Enhanced

Relevant Readings

Class discussion

PowerPoint presentations

## **Textbooks and Learning resources**

### Required textbooks

Nelson, R. & Staggers, N. (2018). Health Informatics An Interprofessional Approach (2<sup>nd</sup> ed.). St. Louis, MO: Elsevier Mosby.

### Recommended/or used as references with the lecture notes

American Psychological Association (1994). Publication manual of the American Psychological Association (6<sup>th</sup> ed.). Washington, DC: Author.

Kudyba, S.P. (2010). Healthcare Informatics Improving Efficiency and Productivity, CRC Press, Boca Raton, Florida.

Nursing Informatics. Scope and Standards of Practice (2008), American Nurses Association, Maryland.

Library Resources on Xavier Portal: Microsoft office software tutorials. There will be some instructor demonstration of Microsoft Word, Excel, PowerPoint, and Visio to ensure you have exposure to these applications during this course.

## **Student Responsibilities**

1. Notifying the professor as necessary for assistance in facilitating understanding of course content or any concerns/problems *prior* to any due assignments.
2. Reading and critically reflecting on material related to course content and assignments.
3. All assignments are to be submitted electronically through Canvas or by email.
4. Submit only individual and original student work.

## **Communication**

Students should expect an email response from the faculty within a 24-48 hour framework (during normal business hours) unless notified about an exception to this time frame. Students in this course will be notified when instructor is unavailable for e-mails and/or phone calls.

## **Attendance**

All students are expected to attend scheduled classes. If the class is online the expectation is for the students to participate in blackboard discussions throughout the week. If the absence is unavoidable the student should notify the faculty member prior to the missed class. The student is responsible for any missed class content. Exceptions will be allowed at the discretion of the faculty.

## **Assignments**

Refer to class outline for the due date of assignments and online quizzes. All course assignments and papers must be submitted electronically. Late posting of assignments or papers will only be accepted at the discretion of the instructor. All papers must be referenced (prefer primary references) utilizing the APA manual (6th ed.).

## **Course Discussion**

Students are expected to actively engage in informed Canvas discussion with other students. These discussions should demonstrate active involvement with the material being considered. Students will share their perspective about their own ideas and consider the ideas of others. Students will have a shared responsibility for learning and for creating and sustaining the learning community that will be developed within the context of this course. Examples of informed participation are;

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# XAVIER UNIVERSITY

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Quality	<i>Comments or questions increase knowledge and stimulate thinking</i>	Comments or questions stimulate thinking	Comments or questions simply reaffirm existing knowledge ( "I agree")
Quantity	<i>Consistently contributes to discussion</i>	Not consistent with contribution to discussion	No contribution to discussion
Professional language	<i>Consistently uses professional that reflects significant understanding of concepts</i>	Frequently uses professional language that demonstrates some understanding of concepts	Rarely uses professional language. Demonstrates minimal to no understanding of concepts

## Course and Resource Materials

- This course is web enhanced through Canvas.
- A variety of methods will be utilized in and out of class to enhance the learning experience:
  - Links to supplemental readings and media
  - Blackboard exercises and class participation activities
  - Examples of assignments for student reference

Course and supplemental materials/links will be made available to students through Canvas. Xavier's Library offers a convenient service of providing direct access to many full text articles on-line. If an article is not available, the library will request the article through the Interlibrary Loan system, and forward an electronic copy to you via e-mail. Only materials from reputable, professional web sites and journals should be considered.

The Canvas course software enables the instructor to know who logged into the course, where in the course site they have visited, and how long they stayed. The Technology Support people also have access to all information posted in Canvas. Consider this every time you enter the virtual classroom and post assignments or submit materials under your user name. Represent yourself truthfully at all times in this course. **Do not allow access to the course by anyone other than you. Falsifying identity is grounds for disciplinary action of all parties involved.**

## Online Grade Book

Students will have access to the online grade book via Canvas. This grade book is confidential and only available to the individual student. Unless noted otherwise, it is anticipated that grades for assignments will be posted within two weeks after the submission deadline.

## Technology Needed to Participate in Program:

To use Canvas and view supplemental materials, students will need access to computer hardware, computer software, and Internet access. Either an IBM compatible PC or a Macintosh type computer is acceptable.

# XAVIER UNIVERSITY

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**Faculty Office Hours:** If you have any questions, concerns, or if you do not understand the material please contact the instructor via e-mail to arrange a phone conference or an appointment to meet with the instructor.

**Course Modification:** The instructor reserves the right to modify lecture objectives, content, learning experiences and time allotted to specific material presented in original course outlines or on the Canvas site.

**Student Handbook:** Students are required to follow the policies and procedures described in the Nursing Student Handbook and in the Xavier University Student Handbook:

<http://www.xavier.edu/deanofstudents/documents/studenthandbook.pdf>

**Students with Disabilities:** If you have a documented disability and wish to discuss academic accommodations, please contact course faculty as soon as possible.

**Grading:**

94 - 100 =	A	83-86 =	B	70-75 =	C
90-93 =	A-	80-82 =	B-	69.4 =	F
87-89 =	B+	79-76 =	C+		

**Note:** For University prerequisite course where the faculty use a +/- grading scale, the department of nursing considers a C- to be within the C range. Rounding of percentages: Round up if equal to or greater than .5; or round down if less than .5.

**Grading:**

Learning Activity	Possible Points
1. Class Assignments (3 total)	15
2. Analysis & Executive Summary Paper (3 total)	15
3. Canvas Discussion (3 total)	15
4. Quiz (2) – open book/essay questions	20
5. Final Paper	20
6. Final Presentation	15
<b>Total Grade</b>	<b>100%</b>

Grading Rubric for Blackboard Discussion	Possible Points
1. Responses to each topic and/or questions to include scholarly articles, professional experience and insights related to topic	4
2. Responses to other students postings to include quality questions and thoughtful feedback	1
<b>Total points</b>	<b>5</b>

***NURS 854: Analysis and Executive Summary Instructions***

**Analysis & Executive Summary Papers**

(The instructor will post scenario executive summaries on blackboard)

1. Title Page and references in APA format
  
2. **Analysis Worksheet:** The purpose of the worksheet is to organize the information gathered for the executive summary. This information can be formatted in bullet points, tables or in the format. **See example posted on Canvas.**
  - a. Statement of the issue
  - b. Alternative technology solutions (at least 3)
  - c. Assessment of alternative technology solutions
  - d. Decision criteria for choice
  - e. Recommended technology solution
  - f. Implementation plan for technology
  - g. Assumptions and missing information
  
3. **Executive Summary:** The information gathered from the analysis worksheet (above) is formally presented in a one page executive summary (single spaced). **See example posted on Canvas.**

<b>Grading Rubric for Analysis &amp; Executive Summary</b>	<b>Possible Points</b>
<b>1. Title Page</b>	0.5
<b>2. Analysis Worksheet</b> a. Statement of the issue b. Alternative technology solutions (3 total) c. Decision criteria for choice d. Assessment of the alternatives e. Recommended technology solution f. Implementation plan g. Assumptions and missing information	1.0
<b>3. Executive Summary</b> a. Statement of the issue (.25) b. Alternative technology solutions (3 total) (.5) c. Decision criteria for choice (.25) d. Assessment of the alternatives (.5) e. Recommended technology solution (.25) f. Implementation plan (.5) g. Assumptions and missing information (.5) h. Spelling, grammar and punctuation (.25)	3.0
4. Reference Page Set (minimum of 3 references)	0.5
<b>Total points</b>	<b>5</b>

## NURS 854: Final Paper & Presentation

### Purpose:

*The purpose of this assignment is to provide the student an opportunity to:*

1. Identify an evidence-based approach to research informed practice decisions.
2. Gain an understanding of the appropriate use of technology to enhance care outcomes.
3. Demonstrate knowledge and skills to educate other healthcare professionals using current software technologies.
4. Demonstrate knowledge and skills to write an executive summary.
5. Demonstrate knowledge and skills of scholarly writing (APA, grammar, writing mechanics, APA formatting, use of appropriate resources (primary references and quality internet resources)).

<b>Grading Rubric for Final</b>	<b>Possible Points</b>
<p><b>Final Paper (6-8 pages total)</b></p> <ol style="list-style-type: none"> <li>1) <b>Executive Summary (1 page)</b> (1 pt.)</li> <li><b>2) Executive Summary Paper (5-7 pages)</b></li> <li>3) Statement of the issue (2 pts.)</li> <li>4) Alternative solutions (1 pt.)</li> <li>5) Decision criteria for choice (2 pts.)</li> <li>6) Assessment of the alternatives (2 pts.)</li> <li>7) Recommended technology solution (1 pt)</li> <li>8) Implementation and plan (2 pts.)</li> <li>9) Assumptions and missing information (2 pts.)</li> <li>10) Spelling, grammar and punctuation (2 pts.)</li> <li>11) Significance to nursing (2 pts.)</li> <li>12) Describe how this technology will improve patient outcomes (2 pts.)</li> <li>13) Title page (0.5 pts.)</li> <li>14) Reference page (0.5 pts.)</li> </ol>	<b>20</b>
<p><b>Final Power Point Presentation (10-15 minutes)</b></p> <p><b><u>Presentation</u></b></p> <ul style="list-style-type: none"> <li>Statement of the issue (1 pt.)</li> <li>Alternative solutions (1 pt.)</li> <li>Decision criteria for choice (1 pt.)</li> <li>Assessment of the alternatives (1 pt.)</li> <li>Recommended technology solution (1 pt.)</li> <li>Implementation and plan (1 pt.)</li> <li>Assumptions and missing information (1 pt.)</li> <li>Significance to nursing (1 pt.)</li> <li>Describe how this technology will improve patient outcomes (1 pt.)</li> </ul> <p><b><u>Professional presentation style</u></b></p> <ul style="list-style-type: none"> <li>Presenters are professionally attired (1 pt.)</li> <li>Power point presentation               <ul style="list-style-type: none"> <li>- Overall visual appeal/creativity (1 pt.)</li> <li>- Effects and transitions (1 pt.)</li> <li>- Flow of power point (1 pt.)</li> <li>- Time management (1 pt.)</li> </ul> </li> <li>Class questions/answers (1 pt.)</li> </ul>	<b>15</b>