CVNU 322
COMPUTER AND INFORMATION MANAGEMENT IN NURSING
FALL 2014
SAMPLE COURSE OUTLINE *

*Please note this is a sample course outline, you will be provided with a confirmed course outline with scheduling details on your first day of class.

Lead Instructor: Gail Wilson
Lead Instructor Phone: 416-864-6060 ext 6276
Lead Instructor e-mail: gwilson@ryerson.ca
Office and Hours: on line access or upon arrangement with instructor

Every effort will be made to manage the course as stated. However, adjustments may be necessary at the discretion of the instructor. If so, students will be advised and alterations discussed in the class prior to implementation.

It is the responsibility of students to ensure that they understand the University's policies and procedures, in particular those relating to course management and academic integrity. A list of relevant policies is included at the end of this outline.

Course hours: 39 hours total
Pre-requisites: None

COURSE DESCRIPTION:

This course focuses on the fundamentals of nursing informatics from a theoretical and practical perspective. The student explores the origins of nursing informatics, the implications of the use of computers within our current health care system. Students will be challenged to use critical thinking and problem solving in reviewing various health informatics concepts.

CVNU322 examines how informatics aids in the transformation of healthcare delivery and how to most effectively use the theories and best practices in informatics toward building and deploying informatics solutions.
COURSE OBJECTIVE/LEARNING OUTCOMES:

By the end of this course the student will be able to:

- Introduce nursing informatics and identify major historical perspectives of nursing and computer technology
- Identify new technologies and their applications in traditional and new environments in nursing
- Introduce Electronic Health Record and how EHRs have contributed to patient care
- Understand the basics of computer hardware and software
- Identify data processing and the importance of knowledge discovery in databases process
- Describe how the Internet has impacted on patient care delivery systems
- Describe utilization of a personal digital assistant (PDA) in clinical care
- Understand the basics of computerized clinical decision support systems
- Identify the main issues related to nursing informatics and healthcare policy
- Identify the role of technology in the medication-use process
- Discuss the need for data standards in healthcare
- Explain the relationship between dependability and health care quality and safety
- Develop an understanding of nursing minimum data set (NMDS)

TEXTBOOK & READING LISTS:

There is no required text for this course. Selected articles will be identified for each module.

METHOD OF INSTRUCTION:

There are 13 modules in CVNU322, one for each week of the course. Each module consists of online content notes and in addition, the first 10 modules consists of a set of required readings and online activities and pursuits.

The additional readings and online activities will be released each Saturday and you are expected to make the contributions to the online activities over the course of the week.

The assessment of learning in CVNU322 is based on your regular thoughtful participation in group discussions and activities, and on the outcomes of the quizzes, scholarly paper, and final exam.
METHOD AND SCHEDULE OF STUDENT EVALUATION:

Methods of Evaluation:

Assignment Details:

**Quiz (25% for each quiz) Due - WEEK 6**

One online quiz will be held at the end of week 6 of the course. The quiz will be made available on the Saturday of the identified week from 10:00-12:00 and you will be able to access them anywhere that has an internet connection. You will have 90 minutes to complete. Quizzes will be a combination of short answer and multiple choice questions and will include the materials covered in the modules as well as the required readings identified in the modules.

**Individual scholarly paper (25%) Due - WEEK 11**

This written assignment is designed to address the student's ability to synthesize relevant materials to address a current topic in nursing informatics. This is an independent student assignment. The references for this assignment are in the assignment section of blackboard, as well as turnitin instructions for students as well as an APA handout for students as a guide for use in the written assignment.

**Participation (15%) - ONGOING**

Students are expected to participate in the learning community in order to create an exciting interactive environment. An expectation of the discussion is that ALL students are adequately prepared to bring forth their creative and thoughtful reflection of the material presented. Each week specific questions or activities will be posted for discussion. Evaluation of your participation will be based on the contributions you provide that stimulate and promote discussion of the topic at hand. Please refer to the School of Nursing Handbook for the criteria for online discussion grades. Discussions should not be ‘cut and paste’ from the internet or other sources but should be presented in your own words, with the identification of the source in your posting.

**Final Exam (35%) WEEK 13**

A comprehensive online exam will cover the course concepts and theories. The exam will be made available on the Saturday of the final week of the course from 10:00-13:00. You will have two hours to complete. The final exam will be a combination of short answer and multiple choice questions and includes the content in the modules as well as questions from the required readings.

**Scheduled Hours:**

Post Diploma Distance Education Course: Online
All components of the course consist of a fully online course delivery modality, via Blackboard.
Assignments:

**Scholarly Paper (Due - Week 11)**

This assignment is designed to provide the student with an opportunity to review the current literature and provide a discussion on a topic relevant to nursing informatics. Select ONE from the following two topics.

**TOPIC 1**

Select a specific electronic health record application (such as electronic documentation, barcoding technology, physician order entry, electronic MAR, clinical decision support etc...).

Review and summarize the current evidence on the selected application as it pertains to patient safety. It is the expectation that you do a comprehensive review of the literature at minimum 5 articles on the specific application and its impact on patient safety.

Critique the evidence identifying the strengths and gaps in the literature that currently exist.

**OR**

**TOPIC 2**

This topic has you implementing an electronic application in your clinical area, such as the implementation of a new clinical piece of equipment (ie glucometer, infusion pumps), implementation of a new data reporting form, electronic documentation etc...

Describe the process of implementation and support the discussion from a theoretical perspective.

Discuss the anticipated barriers in the implementation process and how you would address those barriers.

Your discussion should be supported from the literature.
**MISSED TERM WORK OR EXAMINATIONS:**

Students are expected to complete all tests, and exams within the identified time frames and by the dates indicated in this outline and these dates/ times and the course syllabus that will be provided day 1 of class. Consideration for a deferral of a term test, or final examination is only permitted for a medical or personal emergency or due to religious observance (request must be received within the first two weeks of the course). The instructor must be notified by e-mail **prior to** the test/exam date, and the appropriate documentation must be submitted. For absence on medical or religious observance grounds, official forms may be downloaded from the Ryerson website at [www.ryerson.ca/undergraduate/currentstudents/forms](http://www.ryerson.ca/undergraduate/currentstudents/forms).

**COURSE SCHEDULE:**

<table>
<thead>
<tr>
<th>Class</th>
<th>Topics</th>
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<tbody>
<tr>
<td>Module 1</td>
<td>Introduction and History of Nursing Informatics</td>
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<tr>
<td>Module 2</td>
<td>Policy and issues related to Informatics</td>
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<td>Module 3</td>
<td>Ontario's eHealth Strategy, Associations and e-Health Components</td>
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<td>Module 4</td>
<td>Canada’s eHealth Strategy, Romanov Commission</td>
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<td>Module 5</td>
<td>Issues in informatics : privacy</td>
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<td>Module 6</td>
<td>Issues in informatics: e-health literacy, internet; community and e-health</td>
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<td>Module 7</td>
<td>Impact of informatics on nursing care</td>
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<td>Module 8</td>
<td>Health Data and data standards</td>
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<tr>
<td>Module 9</td>
<td>Health Data and data standards continued; Electronic health record</td>
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<td>Module 10</td>
<td>Health Informatics common language; HRE and impact on patient safety</td>
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<tr>
<td>Module 11</td>
<td>Health data standards</td>
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<tr>
<td>Module 12</td>
<td>Health data standards continued</td>
</tr>
<tr>
<td>Module 13</td>
<td>Health data standards continued</td>
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**WEEK OF FINAL EXAM**

**Expectations of Students**

[Ryerson School of Nursing Handbook, Post Diploma Degree students, Bachelor of Science in Nursing.](http://ce-nline.ryerson.ca/ce/forms/nursing/post_diploma_degree_student_handbook_2013-14.pdf)
Course Policies:

1. **Student Code of Conduct:** Students must be familiar with and abide by all University and School of Nursing policies including the “Student Code of Academic Conduct”, the “Student Code of Non-Academic Conduct” and “Professional Conduct”. A student may be WITHDRAWN from the nursing program for reasons of unprofessional behaviour or professional misconduct.

2. All students are **required to activate and maintain a Ryerson Matrix email account and access Ryerson mail on a regular basis.**

3. Students need to inform faculty of any situation that arises during the semester which may have an adverse effect upon their academic performance and that they **must** request any necessary considerations [e.g. medical or compassionate], or accommodations [e.g. religious observance, disability (should be registered with the Access Centre), etc.] according to policies and well in advance. **Failure to do so will jeopardize any academic appeals.**

4. **Turnitin**, an electronic plagiarism detection service, may be used. Students who do not want their work submitted to this plagiarism detection service must, by the end of the second week of class, consult with the instructor to make alternate arrangements. When an instructor has reason to suspect that an individual piece of work has been plagiarized, the instructor shall be permitted to submit that work to any plagiarism detection service.

You will be expected to submit your paper through the turnitin system. Details of how to submit your paper will be provided in week 1.

5. All students enrolled in the Post Diploma Degree Completion Program in Nursing must have valid or pending registration with the College of Nurses of Ontario (CNO). Students are required to notify the School of Nursing of any change in CNO registration status. Failure to attain/maintain CNO registration will result in WITHDRAWAL from the Nursing course(s) and a REQUIRED TO WITHDRAW status from the program. The exception to the policy of CNO registration are those students from an approved bridging program.

6. Requests for accommodation of specific religious or spiritual observance must be presented to the instructor no later than two weeks prior to the conflict in question (in the case of final examinations within two weeks of the release of the examination schedule). In extenuating circumstances this deadline may be extended. If the dates are not known well in advance because they are linked to other conditions, requests should be submitted as soon as possible in advance of the required observance. Given that timely requests will prevent difficulties with arranging constructive accommodations, students are strongly encouraged to notify instructors of an observance accommodation issue within the first two weeks of classes. To facilitate timely requests and decision making, the University will take all practical steps to ensure that students and instructors are aware of the policy and related observance issues.

7. **All policies can be found at www.ryerson.ca/acadcouncil**
Students are expected to be familiar with all University and School of Nursing policies concerning academic performance (e.g. academic misconduct, submission of late assignments, etc.) and academic integrity. Please refer to the Post Diploma Degree Nursing Program Student Handbook and to the Ryerson University Calendar for detailed information regarding academic policies and integrity.

Professionalism in our Learning Community

Students and faculty within the school of nursing are colleagues in nursing. All members of our learning community are expected to act with professionalism and academic integrity. Honesty is the basic hallmark of academic integrity (http://www.ryerson.ca/~acadpol/policies.html). Community members are expected to credit others’ ideas in written work, make a fair contribution to group work, and behave with integrity during tests and exams. Trust, respect and fairness are values that underpin effective collaboration and life-long learning (The Center for Academic Integrity, 1999). The Ryerson, Centennial, George Brown Collaborative Nursing Degree program and The Ryerson Post RN Nursing Degree Program expect students to listen to one another’s viewpoints and to be respectful in communication. Students are required to attend all classes and labs, to be prepared, to be on time and to give adequate notice if circumstances prevent them from attending. Positive collegial professional relationships between students and faculty members contribute to excellence in both nursing education and nursing practice.

“The Recipient of Health Care is Considered the End Goal of Nursing Education” (Final Candidacy Report, 2004, p. 13).

Post Diploma Degree students must also maintain their College of Nurses registration.


Students with disabilities that require academic adaptations or services may discuss their needs with the course instructor and/or contact the Student Services Access Centre 285 Victoria Street, BUS-lower level and 350 Victoria Street, JOR-300 phone: (416) 979-5290 (voice), (416) 979-5274 (TDD/TTY), fax: (416) 979-5094 e-mail: accesctr@ryerson.ca Those with learning disabilities or attention deficit disorders may contact the Access Centre Annex at 55 Gould St., lower level, also at (416) 979-5290.

Note: Promotion Policies

Students must achieve a grade of ‘C’ or above in all nursing theory and practice courses (all NCL, NUC, NUR courses) in order to be eligible to enroll in nursing courses in subsequent semesters.

Students who earn a grade of ‘C-’ or below in any nursing theory or practice course will be given a PROBATIONARY Standing regardless of their overall GPA.

Students will remain on PROBATION until they receive a grade of ‘C’ or above in all nursing courses.

Students on PROBATION who earn a grade of ‘C-’ or below in a nursing theory course other than the nursing theory course(s) in which they previously obtained a grade of ‘C-’ or below, OR who receive a first time ‘C-’ or below in a nursing practice course, will be given a REQUIRED TO WITHDRAW status.

Students who receive a second grade of ‘C-’ or below in the same nursing theory course (either a repeated or subsequent practice course) will result in a PERMANENT PROGRAM WITHDRAWAL Standing. This
variation will be enacted even when the student has taken less than three courses and has not acquired a cumulative grade point average.

At any point during the academic year, the School of Nursing reserves the right to terminate a student's experience in a nursing practice setting when patterns of behaviour place self, clients or others at risk. This will result in the student receiving an ‘F’ grade for the course. In this circumstance, students shall have established rights of appeal; however, they cannot remain in the course while the appeal is underway. The appeal will be conducted promptly in order to protect students' rights.

The student may be assigned PERMANENT PROGRAM WITHDRAWAL from the Nursing program for reasons of unprofessional behaviour or professional misconduct.

All nursing theory courses must be completed within five years of the prerequisite professional course. (For example, no more than five years can elapse between completion of Year 1 professional courses and enrollment in Year 2 professional courses.)