SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

SAULT COLLEGE

COURSE OUTLINE

COURSE TITLE: Nursing Informatics: An Introduction to the Influence of Information Technology on Clinical Practice

CODE NO. : NURS2817 **SEMESTER:** All

PROGRAM: Collaborative Bachelor of Science in Nursing

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DATE: June, 2016 **PREVIOUS OUTLINE DATED:** Mar. 2016

APPROVED: *"Marilyn King"* *Sept. 2016*

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 CHAIR, HEALTH PROGRAMS **DATE**

TOTAL CREDITS: 3
PREREQUISITE(S): None
HOURS/WEEK: 3

I. **COURSE DESCRIPTION:**

Nursing informatics is focused on "integrating nursing, its information and knowledge, and their management with information and communication technologies to promote the health of people, families and communities worldwide" (International Medical Informatics Association, 2009). Through this introductory course, students will learn about the influence of information technology on clinical practice and explore methods of incorporating informatics into practice.

This introductory course will begin a conversation about what it means to be a nurse informatician, who according to the American Nursing Association, "supports consumers, patients, nurses, and other providers in their decision making in all roles and settings. This support is accomplished through the use of information structures, information processes, and information technology" (ANA, 2008). As such, an understanding of each of these domains is imperative to nursing practice in today's healthcare environment. This introductory nursing informatics course will explore the fundamental domains of nursing informatics and the influences of information technology on clinical practice.

II. **LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

Upon successful completion of this course, the student will demonstrate the ability to:

1. Comprehend the influence of information technology in modern clinical practice and the expectation of the nursing role.

2. Identify the fundamental social science perspectives and theories upon which the nursing informatics discipline is built.

3. Explain the importance of information standardization and the critical role of nursing in collecting and documenting accurate data.

4. Demonstrate the different purposes of information technology and challenges faced in northern and rural areas.

5. Understand the impact of consumer informatics on clinical practice.

6. Explore and demonstrate the methods of and challenges with implementing information technology.

III.   TOPICS:

1.   Information management and knowledge generation
    a.   History and Development of Nursing Informatics
    b.   Information Generation & Standardization
    c.   Social Science Perspectives & Informatics Theories

2.   Information technologies
    a.   Northern & Rural Issues: Distance Health
    b.   Electronic Medical Records & Order Entry
    c.   Clinical Decision Support Systems & Evidence-based Practice
    d.   Community-based Systems & Public Health
    e.   Mobile Health & Biomedical interfaces

3.   Professional practice
    a.   Consumer Informatics
    b.   Privacy & Patient Rights

4.   System life cycle
    a.   Planning & Analysis
    b.   Design & Development
    c.   Integration & Evaluation

IV.   REQUIRED RESOURCES/TEXTS/MATERIALS:

Nelson, R., & Staggers, N. (Eds.) (2013). *Health informatics: An Interprofessional approach* (1st edition). St. Louis, MO.: Elsevier.

SUGGESTED RESOURCES

American Nurses Association (2008) Nursing Informatics: *Scope and Standards of Practice*. Retrieved from:
    http://www.aorn.org/Clinical_Practice/Clinical_FAQs/Informatics.aspx

Canadian Association of Schools of Nursing: *Entry-to-Practice Nursing Informatics Competencies* (2012). Retrieved from: http://www.casn.ca/2014/12/casn-entry-practice-nursing-informatics-competencies/

International Medical Informatics Association. (2009) *The nursing informatics special interest group – definition.* Retrieved from:
    http:www.imiani.orgindex.phpoption=com_content&task=view&id=27&Itemid=5

V.   EVALUATION PROCESS/GRADING SYSTEM:

See attached syllabus

The following semester grades will be assigned to students:

Grade	Definition	Grade Point Equivalent
A+	90 – 100%	4.00
A	80 – 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

If a faculty member determines that a student is at risk of not being academically successful, the faculty member may confidentially provide that student's name to Student Services in an effort to help with the student's success. Students wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.

VI.   **SPECIAL NOTES:**

Attendance:
Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

VII.   **COURSE OUTLINE ADDENDUM:**

The provisions contained in the addendum located in D2L and on the portal form part of this course outline.