



Nursing Informatics Integration in a 4 year BSN Program

June Kaminski, RN MSN PhD St

CNIA President-Elect

June.Kaminski@cnia.ca



Rationale

- ❖ Curriculum supported Nursing Informatics as a central thread
- ❖ Stressed the need to integrate NI across the program, not just a single course
- ❖ Learning activities developed by author for each Nursing course in program across all four years



Learning Activity Design

- ❖ Each Learning activity includes 3 crucial components including:
- ❖ Epistemological: Cognitive, To Know
- ❖ Ontological: Interactive, To Do
- ❖ Phenomenological: Reflective, To Be



Integration Procedure

- ❖ From 1996 to 1999, a paper manual was used for integration
- ❖ In September 1999, a web-based environment for the content was added
- ❖ Content is updated and revised annually (summer)



Integration Procedure (ii)

- ❖ The learning activities are focused on 3 themes:
 - ❖ 1. Nursing Informatics Theory
 - ❖ 2. Computer Application Literacy
 - ❖ 3. Nursing Informatics Culture Development



Integration Procedure (iii)

- ❖ Each student were provided with a manual and a website directory (70+ pages each)
 - ❖ and access to the web-based learning environment
- ❖ Specific learning activities for each course integrated into the classroom by some faculty or taught directly by author as guest instructor.



Integration Procedure (iv)

- ❖ Cyberphobia is addressed: each student completes the P.A.T.C.H. assessment tool (Pretest for Attitudes Toward Computers in Healthcare)

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- ❖ A personal learning plan to develop computer literacy is also encouraged



Nursing Informatics Learning Activities

YEAR ONE

- ❖ Semester One
 - ❖ Electronic Literature Search
 - ❖ Nursing Informatics as a Competency
 - ❖ Observation: Nurse's Use of Computers
 - ❖ Reverie Journaling (Word-Processing, Blogs)
- ❖ Semester Two
 - ❖ World Wide Web Searches
 - ❖ Email, Netiquette
 - ❖ Personal Portfolio: (Spreadsheets)



Nursing Informatics Learning Activities

YEAR TWO

❖ Semester Three

- ❖ Use of Nursing Info Systems In Acute Care
- ❖ Discharge Planning (E-Pamphlet, E-Booklet)
- ❖ Health Challenge Research

❖ Semester Four

- ❖ Technology & Caring
- ❖ Health Information: Nursing Components
- ❖ Confidentiality & Security
- ❖ Visual Teaching in Pathophysiology



Nursing Informatics Learning Activities

YEAR THREE

❖ Semester Five

- ❖ Nurse Expert Systems
- ❖ Teaching Prevention
- ❖ Preparing for the Future
- ❖ Bioethics & Technology
- ❖ RN ACCESS: Intro to Nursing Informatics

❖ Semester Six

- ❖ Health Promotion Tool
- ❖ Research Software
- ❖ Website Development
- ❖ Online Collaboration
- ❖ Community Development



Nursing Informatics Learning Activities YEAR FOUR

❖ Semester Seven

- ❖ Computers & Change
- ❖ Data Analysis Software
- ❖ Group Chats & IRC
- ❖ CHINS, Telenursing

❖ Semester Eight

- ❖ Multimedia
- ❖ Lifelong Learning & Competencies
- ❖ Nursing Informatics Specialization



Web-based Environment BENEFITS

- ❖ Core resources online
- ❖ Develop Internet skills
- ❖ Readings & references
Online Tutorials &
Research sources
hyperlinked
- ❖ Ready access to Help
- ❖ Interactive groups &
Canadian Informatics sites
hyperlinked (CNIA, CIHI,
COACH, CNA,...)
- ❖ Ontological component is
more realistic



Web-based Environment CHALLENGES

- ❖ Computer Literacy
- ❖ Cyberphobia
- ❖ Access (lab, home)
- ❖ Faculty Readiness
- ❖ Motivation
- ❖ Server Downtime
- ❖ Campus Resources
- ❖ Tutoring complex skills
(Website design,
Multimedia, etc.)
- ❖ Budget Restraints for
Faculty Training
- ❖ Student Workload
- ❖ Learning Curve



Web site Location and Contact

- ❖ The website is currently viewable at:
<http://www.nursing-informatics.com/kwantlen/>
- ❖ For further information contact June Kaminski at
- ❖ june@nursing-informatics.com

- ❖ CNIA President-Elect and
Director of Communication
- ❖ june.kaminski@cnia.ca <http://cnia.ca>



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