

Launching New Generation Nursing Researchers into Nursing Informatics

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FACTORS

The American Nurses Association defines nursing informatics as "a specialty that integrates nursing science, computer science, and information science to manage and communicate data, information & knowledge in nursing practice."
ANA, 2001 Scope & Standards of NI Practice.

Evolution of Nursing Research Focus on Outcomes
*Accountability for patient care
Cost effectiveness*

Broader Research Questions
*From individuals to populations
Systems approach*

National Agenda & Initiatives
*Transition of science to clinical practice
Health care delivery systems & policy*

Nell Hodgson Woodruff School of Nursing, PhD Program
Focus on excellence in research & research mentoring.

Commitment to creating scientists who are generating new knowledge to improve care.
Preparing researchers to be a part of interdisciplinary health care research team.

Woodruff Health Sciences Center Library

The mission of the Woodruff Health Sciences Center Library is to serve the Emory community by preserving medical knowledge and integrating biomedical information into education, research, and quality health care to foster critical thinking, discovery process, and evidence-based practice.

IKM Pilot Program

GOALS

To provide PhD students with theoretical and practical understanding of:

- Health Information in Nursing Research
- Information & Knowledge Management
- The Role of Information in Scientific Inquiry

Learning Objectives

Program participants will:

- Achieve a baseline level of competency in information management
- Understand strategies and technologies needed to manage information
- Be proficient in data integration
- Be able to utilize shared terminologies and controlled vocabularies
- Understand the role of communities of practice and knowledge sharing.

WHAT WE INVESTED

Staff

- Two librarians

Time

- Preparation and planning: ten hours
- Teaching: eleven hours
- Miscellaneous: ten hours

Research base

- Literature review
- Previous experiences

Materials & Technology

- Handouts
- QUOSA Information Manager
- Blackboard
- Discussion Board
- Email
- Existing and new online tutorials

Partners in the School of Nursing

- Associate Dean for Research & Director of Graduate Studies
- Associate Dean for Education
- Dean's office administrator
- Lab technical support

Facilities & Equipment

- Learning Resource Center Classroom
- Twelve workstations
- Client-based software

WHOM WE REACHED

- School of Nursing administration
- PhD Program faculty-mentors
- First-year PhD students
- School of Nursing faculty



WHAT WE DID

- Presented Associate Dean for Research with a Proposal
- Developed workshop for faculty to showcase the future program
- Introduced PhD students to the future program during Orientation
- Conducted hands-on sessions
- Produced video-tutorials to capture the essence of face-to-face sessions
- Created course presence in Blackboard
- Established Shared MyNCBI
- Conducted Exit survey
- Certificate presentation / Follow-up Focus Group

CURRICULUM

SON, PhD Plan of Study, Year One, Fall 007

- Philosophy, Theory & Nursing Science
- Statistical Methods
- Health Policy & Resource Allocation
- Health Policy Seminar
- Research Seminar & Residence

Information & Knowledge Management Pilot

- Mastering the Library
- Controlled Vocabularies, Taxonomies, Terminologies
- Information Management Methods
- Information Retrieval Systems

BIBLIOGRAPHY

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2. Cody M, Beck C, Courtney R, Shue VM. Integrating health services into nursing doctoral programs: the evolution of nursing research. *J Nurs Educ*. 2002 May; 41(5): 207-14.
3. Gurses AP, Xiao Y. A systematic review of the literature on multidisciplinary rounds to design information technology. *J Am Med Inform Assoc*. 2006 May-Jun; 13(3):267-76
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EXIT SURVEY COMMENTS

The best part of the Informatics Course was:

- Getting to know the available resources
- Getting to know that faculty are available to assist us
- Overview of QUOSA
- Being able to follow instructors
- Learning QUOSA and EndNote (helpful for research)

The worst part of the Informatics Course was:

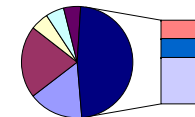
- Difficult to repeat steps at home
- Need more specific outlines to replicate specific steps
- Sometimes too much information – hard to absorb at times

I would change the Informatics Course by:

- Condensing the program
- Providing more information on how to search
- Letting each individual apply search techniques in the classroom using their own topic of interest
- Doing four-five basic sessions during the first semester, and another four-five sessions during the second semester on more advanced searching.

EXIT SURVEY RESULTS

Strongly Agree



- Content was interesting & useful
- Content was relevant to my research & studies
- I understand strategies & technologies needed to manage information
- I understand how and when to use QUOSA, MyNCBI and EndNote
- I understand how to plan information research
- I understand the utility of appropriate vocabularies
- I understand the principles of searching biomedical information
- Materials posted on Blackboard are likely to be used as a future reference

FOR FURTHER INFORMATION

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INFORMATION MANAGEMENT IN PRACTICE

START WITH A RESEARCH PLAN

- Ideas • Facts • Concepts •
- Data • Reports • Articles •
- PubMed • CINAHL •
- MyNCBI • QUOSA •
- EndNote •

CHOOSE RESEARCH SUBJECT

DEFINE RESEARCH DESIGN AND METHODS

