

**University of Jordan
Faculty of Nursing
B.Sc., Nursing Program
Course Syllabus Summer Semester 2009**

Course Title:	Methods of Scientific Research	
Course Number:	0733454	
Credits:	Three credit hours	
Time:	Sun-Thu 12:40-1:40 pm	Sun-Thu 9:10 - 10:10 am
Faculty Member:	Waddah Demeh, PhD, RN	Ali Saleh, PhD, RN
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Office Hours:	By appointment only	By appointment only

Course Description

The purpose of this course is to introduce the undergraduate nursing students to research process as presented in professional nursing literature. It aims at introducing the basic concepts of research, its nature, purpose, methods, literature review, and data collection, analysis and utilization. It will explore research problems in nursing, appropriate methodologies and designs and ethical implications. Emphasis will be on the applicability and implementation of the research process to nursing and related problems.

Aim of the course

The course aims at introducing the students to the basic research concepts and process in nursing and the health profession, the steps of the research process will be discussed and reviewed with special emphasis in building the nursing students abilities in utilizing the results of nursing research in developing the area of education, practice and building the body of nursing knowledge.

Course Objectives

- Upon successful completion of this course, students will be able to:
1. Demonstrate knowledge of the historical evolution and future direction in nursing research
 2. Understand the components of the research process including problem definition, data collection, data analysis and communication of findings.
 2. Describe the qualitative and quantitative approaches to research
 3. Use the principles of conducting a research study in order to analyze and evaluate reported nursing research studies, with emphasis on the role of research in the development of nursing knowledge and the improvement of nursing practice.
 4. Understand the principles and methods of research proposal development.
 5. Analyze and synthesize nursing research articles for applicability of findings to clinical practice.
 6. Analyze ethical issues involved in nursing research.

Intended Learning Outcomes (ILOs)

Successful completion of the course should lead to the following learning outcomes:

A. *Knowledge and Understanding*

1. Define basic research terminology.
2. Identify sources of nursing knowledge.
3. Describe scientific research.
4. Discuss four major goals for conducting research.
5. Recall some of the historic events in the development of nursing research.
6. Determine priority areas for nursing research.
7. Discuss some of the unethical studies that have been documented in the literature.
8. Identify the ethical considerations in scientific research.
9. Identify the elements of informed consent.
10. Identify sources of nursing research problem.
11. List the major steps in the research process.
12. Explain the major steps in the research process.

B. *Cognitive and Intellectual Skills*

1. Compare two broad purposes for conducting research.
2. Compare qualitative and quantitative research.
3. Trace the development of ethical codes and guidelines.
4. Appreciate the role of institutional review boards in conducting nursing research.
5. Analyze the steps of the research process both quantitative and qualitative research

C. *Subject Specific Skills*

1. Demonstrate knowledge of the historical evolution and future direction in nursing research.
2. Recognize the importance of nursing research.
3. Write a research in nursing utilizing the major steps of the research process.

D. *Transferable Skills*

1. Apply the major steps of the research process to conduct a research in nursing.
2. Critique research reports according to the major steps of the scientific research.
3. Perform the role of baccalaureate nurse in conducting research.
4. Recognize unethical nursing research.
5. Act as a patient advocate during research investigation.
6. Critique the ethical aspects of a research study.

Methodology:

Lecture

Discussion

Audio Visual Aids

Application Exercises and Group Work

Course Evaluation

Your performance in this course will be evaluated based on:

Midterm Exam	30%
Second Exam	20%
Final Exam	50%
Total	100%

Students are expected to come to class prepared to participate in discussions. Each student is required to obtain & read a recent article, analyze and summarize it according to the research process followed in the class.

Course Policies

1. Students are expected to prepare for lectures by reading assigned materials and/or bring required resources.
2. Attendance of lecture is a requirement and should be on time.
3. Students who miss seven lectures or more with or without excuse will be dismissed from the course.
4. In case of absence at exam time, student needs to bring formal permission from the dean within 48 hours as an excuse to repeat the exam.

Readings

Required

Nieswiadomy, R. M. (2008). Foundations of Nursing research (5th. ed.). Upper Saddle River, NJ: Prentice-Hall.

Nieswiadomy, R. M. (2002). Foundations of Nursing research (4th. ed.). Upper Saddle River, NJ: Prentice-Hall. (Chapters are specified according to topics)

Suggested

Polit, D. & Hungler, B. (2001). Nursing research: Principles and methods (4th. ed.). Philadelphia: J. B. Lippincott Co.

Recommended Journals

For good research articles, please refer to the following journals available at the Center for Educational Development or the Main library. This list is non-conclusive.

1. Nursing Research
2. Applied Nursing Research
3. Clinical Nursing Research
4. Western Journal of Nursing Research
5. Educational Review- Researching Health Issues in Education
6. Advances in Nursing Science
7. Image: The Journal of Nursing Scholarship
8. International Journal of Nursing Studies

University of Jordan- Faculty of Nursing
B.Sc., Nursing Program
Course Syllabus Summer Semester 2009
SCIENTIFIC RESEARCH METHODS (0733454)
Tentative Class Schedule

Week No.	Topic	Readings
Week 1		
	Introduction and course overview	
	Development of nursing research	Chapter 1
	Ethical issues in nursing research	Chapter 2
Week 2		
	An overview of quantitative research	Chapter 3
	An overview of qualitative research	Chapter 4
	Identifying nursing research problems	Chapter 5
Week 3		
	Review of the literature	Chapter 6
	Theory and nursing research	Chapter 7
	Hypotheses & research questions	Chapter 8
Week 4		
	Quantitative research designs	Chapter 9
Week 5		
	Qualitative research design	Chapter 10
	Populations and samples	Chapter 11
Week 6		
	Measurement and collection of data	Chapter 12
	Data-collection methods	Chapter 13
Week 7		
	Presentation and discussion of study findings	Chapter 16
	Communication & utilization of nursing research	Chapter 17
Week 8	Presentations	
15-17/8/2009	<i>Final Exam</i>	