State University of New York
College of Technology
Canton, New York

COURSE OUTLINE

RESEARCH METHODS IN THE HEALTH SCIENCES

NURS/DHYG 370

Prepared by: Debra Backus PhD, CNE, NEA-BC

SCHOOL OF SCIENCE, HEALTH, AND CRIMINAL JUSTICE
NURSING
Spring 2015

A. **TITLE:** Research Methods in the Health Sciences

B. **COURSE NUMBER:** NURS/DHYG 370

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE (OPTIONAL):** No

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Fall

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
Three hours per week.

H. **CATALOG DESCRIPTION:** The purpose of this course is to understand and apply research findings to practice.

I. **Pre-Requisites:** Enrolled in RN-BS or BS in Dental Hygiene programs
MATH 141 (Statistics) or equivalent coursework

J. **GOALS/LEARNING OUTCOMES:** By the end of this course, students will:

Student Learning Outcomes (SLO)	Program SLO	QSEN	NLN 2010	Institutional SLO
Examine sources of healthcare research information to support evidence based practice.	Synthesize knowledge from the liberal arts and nursing to promote the health and well-being of culturally diverse individuals, families, groups, and communities.	Quality Improvement	Spirit of Inquiry	Professional Competence Intra-Interpersonal Skills
Relate how research data can be used to recommend changes in care practice.	Utilize nursing theory/conceptual frameworks, nursing research, and evidence-based practice in addressing the nursing care needs of culturally diverse individuals, families, groups and communities.	Evidence Based Practice Teamwork and Collaboration Patient Centered Care	Human Flourishing	Communication Critical Thinking Professional Competence Intra-Interpersonal skills

Student Learning Outcomes (SLO)	Program SLO	QSEN	NLN 2010	Institutional SLO
Use electronic data bases to conduct literature review.	Synthesize knowledge from the liberal arts and nursing to promote the health and well-being of culturally diverse individuals, families, groups, and communities.	Informatics	Nursing Judgment	Critical Thinking Professional Competence Intra-Interpersonal Skills
Collaborate with a health care agency to implement a Quality Improvement project.	Utilize nursing theory/conceptual frameworks, nursing research, and evidence-based practice in addressing the nursing care needs of culturally diverse individuals, families, groups and communities. Collaborate with health care colleagues to promote holistic health care for individuals, families, groups, and communities. Planning and implementing educational activities that empower individuals, families, group, and communities to manage their health care at the local, national, and global level.	Teamwork and Collaboration Patient Centered Care Leadership Quality Improvement	Human Flourishing Professional Identity	Communication Critical Thinking Professional Competence Intra-Interpersonal Skills

K. REQUIRED TEXT:

Polit, D. F. & Beck, C. T. (2014). *Essentials of Nursing Research: Appraising Evidence for Nursing Practice.* Philadelphia, PA: Lippincott Williams and Wilkins.

American Psychological Association. (2009). *Publication Manual of the Psychological Association (6th Ed.)* Washington, DC: APA. ISBN: 10:1-4338-0561-8.

L. REFERENCES: None

M. EQUIPMENT: None

N. GRADING METHOD: A-F

O. MEASUREMENT CRITERIA/METHODS: Discussion Board Activities, Reflections, Qualitative Literature Critique, Quantitative Literature Critique, Quality Improvement Project, Quizzes

P. DETAILED COURSE OUTLINE:

1. Introduction to Research Fundamentals
2. Quantitative Research
   a. Problems, Questions, and Hypothesis
   b. Literature Review
   c. Theoretical and Conceptual Frameworks
   d. Design: Experimental versus Nonexperimental
   e. Sampling and Data Collection
   f. Reliability and Validity
   g. Measurement and Data Quality
   h. Statistical Analysis of Data
   i. Interpretation of Findings
3. Qualitative Research
   a. Designs
   b. Sampling and Data Collection
   c. Analysis of Data
   d. Trustworthiness and Integrity
4. Critique of research reports
5. Systematic reviews: Meta-Analysis and Metasynthesis
6. Presentation and Discussion of quality Improvement Project