University of Arkansas – Fort Smith 5210 Grand Avenue PO Box 3649 Fort Smith, AR 72913 479-788-7000

General Syllabus

HLTH 4103 Research in the Health Sciences

Credit Hours: 3 Lecture Hours: 3 Laboratory or other types of Hours: 0

Prerequisite(s): Admission into a health sciences program or consent of Executive Director of the School of Nursing or Dean of the College of Health, Education and Human Sciences, STAT 2503 Probability and Statistics I

Effective Catalog: 2023-2024

I. Course Information

A. Catalog Description:

Introduction into methods and techniques of research in health sciences. Focuses on basic research terminology, research designs, qualitative and quantitative methods, and data analysis. Critical-thinking skills used to evaluate clinical research for applicability to the health sciences.

B. Additional Course Description:

This full online course is available via Blackboard Learning (BLS). The course content is divided into four learning modules that include learning outcomes, teaching materials, assessment, and learning activities.

II. Student Learning Outcomes

A. Subject Matter:

Upon completion of this course, the student will:

- 1. Compare the philosophical foundations of quantitative research and qualitative research.
- 2. Formulate research questions/hypotheses based on the research topic.
- 3. Conduct a literature review using various search engines on a selected clinical problem.
- 4. Explain the purpose of protection of human subjects in health sciences research.
- 5. Compare the considerations of sampling, design, measurement, data collection, and data analysis in quantitative and qualitative researches.
- 6. Evaluate research article used by the logical consistency between the theoretical perspective, research purpose, question, design, statistical analysis, and conclusions in evidence-based research.
- 7. Explain the impact of research in the health sciences on practice, education, and

health promotion.

8. Develop a mini research proposal on a selected topic from your discipline using an established protocol.

B. University Learning Outcomes:

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking

Students will analyze information to reach viable solutions to a problem and assess and justifying their solutions.

Communication Skills (written and oral)

Students will communicate effectively using interpersonal, written, and technological strategies.

Ethical Decision Making

Students will model ethical decision-making processes in health care related settings. Students will identify ethical dilemmas and affected parties.

III. Major Course Topics

- A. Beginning the Research Process
- B. PICOT Question
- C. Library Resource Discussion and APA Format
- D. Hierarchy of Evidence
- E. Quantitative Research
- F. Qualitative Research
- G. Critical Appraisal
- H. Protecting Human Participants
- I. Topic and PICOT
- J. Articles and Evaluation Template
- K. Synthesize the Evidence
- L. Methodology
- M. Implementation
- N. Evidence-based Practice Paper or Presentation