

Idaho State University
Doctor of Philosophy in Nursing

NURS 8805 – Philosophy of Nursing Science and the Role of the Nurse Researcher

1. Examine differing scientific philosophies and their contributions to science.
2. Discuss the concept of paradigms (and the scientific revolution described by Kuhn) and the current paradigms applicable to nursing science (interpretive and empiricism).
3. Discuss epistemology (the philosophy of knowing) as it relates to the nursing patterns of knowing and how the patterns of knowing relate to nursing knowledge and knowledge development (research).
4. Critically analyze the roles and responsibilities of the nurse researcher and the appropriate conduct of a nurse researcher within the scientific community, academia, and the world.

NURS 8808 – Theoretical and Conceptual Analysis in Nursing Science

1. Analyze and synthesize nursing theory, beginning with the nursing metaparadigm of Person/Health/Nursing/Environment, continuing with the major grand theories, mid-range theories, and finally practice theory.
2. Analyze various nursing theories to determine appropriateness of fit to nursing research.
3. Evaluate published research for appropriateness across theories, designs, and methodologies.

NURS 8809 – Research and Practice in Rural and Global Communities

1. Analyze the relationship of rural related factors that impact the health of individuals, families, and communities.
2. Critique rural theories, frameworks, and methodologies applied to rural and global communities.
3. Develop researchable questions related to rural, diverse, and vulnerable populations.

NURS 8813 – Qualitative Inquiry and Analysis (ay substitute SOC 6603)

1. Critique qualitative traditions used to describe and explain phenomena or to develop theory.
2. Analyze qualitative approaches used to organize, provide structure to, and elicit meaning from data.
3. Contrast methods for enhancing rigor of qualitative research approaches.
4. Interpret and synthesize qualitative data.

NURS 8814 – Statistical Methods in Health Research I

1. Design and interpret graphical and tabular displays of statistical information.
2. Apply the different theoretical probability distributions and the implications of the Central Limit Theorem for statistical inference.
3. Employ commonly used parametric and non-parametric methods for continuous and categorical outcomes, including hypothesis testing and interval estimation, to draw inferences from quantitative data.
4. Conduct sample sizes and power calculations for commonly used quantitative study designs.
5. Distinguish between the various generalized linear models for handling different types of health outcomes.
6. Interpret and synthesize quantitative data.

NURS 8815 – Statistical Methods in Health Research II

1. Formulate and interpret parameters from the various generalized linear models, including unadjusted and adjusted coefficients, confounding factors, dummy variables, and interaction terms.
2. Conduct, report, and interpret results from measurement and latent variable models.
3. Conduct and interpret diagnostics and model fit tests for regression, measurement, and latent variable models.

NURS 8816 – Quantitative Inquiry and Analysis

1. Compare and contrast common quantitative study designs, including strengths and limitations.
2. Select, conduct, and interpret results from analytic models appropriate to the various study designs.
3. Recognize and analyze the most important threats to internal and external validity in quantitative research including confounding, information bias, selection bias, and effect modification.
4. Evaluate validity and reliability of instruments used in quantitative research, and recognize issues associated with measurement.
5. Design and critically evaluate quantitative research studies.

NURS 8820 – Ethics in Nursing Research

1. Understand federal regulations regarding research involving human subjects and apply it to student's own program of research.
2. Describe the history of human subject research globally.
3. Analyze how federal regulations and major ethical concepts (including but not limited to justice, autonomy and beneficence) affect the design, methods and implementation of nursing research.
4. Develop an IRB application for a study.
5. Compare and contrast the IRB levels of review.

NURS 8825 – Research and Grant Writing

1. Discuss and critique a fundable idea
2. Identify sources of grant funding including private and federal sources.
3. Create a research plan
4. Compose a potentially fundable grant application for a specific funding mechanism.
5. Demonstrate the review process during grant development.

NURS 8826 – Approaches to Scholarly Writing

1. Apply resources for scholarly writing skill development.
2. Evaluate scholarship which is peer reviewed and disseminated.
3. Create a measurable outcome which can be disseminated in a peer reviewed outlet.

NURS 8830 – Current Trends in Research Design and Methods

1. Explain the appropriate use of research designs and methods using published exemplars.
2. Compare and contrast the strengths and limitations of innovative research designs and methods taught in the course.
3. Discuss how and why the research designs and methods introduced in the course were developed and have advanced the science of nursing.

NURS 8840 – Leadership and Health Policy

1. Analyze national health care finance policy and effects on health care delivery.
2. Analyze regulatory, legislative, economic, and public and/or private policies related to nursing practice, supply and demand issues. May be state or national perspective.
3. Compare and contrast environmental influences on nursing and the health care system.
4. Analyze relevant legal and ethical issues affecting health care policy development and implementation.
5. Discuss a health policy issue of interest with a local, state or national policy maker.

NURS 8881 – Research Seminar I

1. Create the first chapter of the dissertation including introduction, description of the problem/opportunity to be addressed, research question(s), literature review supporting the direction of the dissertation.

NURS 8882 – Research Seminar II

1. Develop research methodology for the dissertation in the quantitative, qualitative, or mixed method paradigm.

NURS 8883 – Research Seminar III

1. Create Chapter 3 of the dissertation or methods section.
2. Synthesize the first three chapters in preparation for the oral defense.