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| Possess knowledge of the history and philosophy of nursing science | **Assessment:**  
- Synthesize the historical and philosophical underpinnings of knowledge development in nursing.  
- Critically analyze philosophical viewpoints and evaluate their potential for developing scientific nursing knowledge.  
- Develop and demonstrate knowledge of ethics and scientific integrity in the conduct of nursing science |         |         |                  |
| **Role of the Program:** | Students entering the PhD program are expected to have successfully completed a master’s level course in nursing theory, nursing research, and a basic statistics course before enrolling in the nursing PhD sequence  
- First semester course- Philosophy of Nursing Science and Policy Development- this course focuses on the historical and contemporary philosophical bases of nursing science through critically analyzing the viewpoints of natural science, integrative science, human science and ethics that underpin nursing knowledge, theory and research.  
- Completion of Role of the Nurse Scholar Seminar- This seminar addresses the responsibilities and activities of a scientist in the health professions including ethical issues, scientific freedom and social responsibility | | | |
| Master in-depth knowledge in a substantive area including the relevant theoretical and empirical literatures | **Assessment:**  
- Critically analyze concepts relevant to the discipline of nursing and evaluate their potential for theory building and testing.  
- Synthesize theoretical and empirical literatures regarding concepts and phenomena relevant to the discipline of nursing.  
- Analyze and evaluate the evolving conceptual bases of a concept | | | |


Role of the Program:

- Completion of Theory and Application to Nursing Research -
  This course focuses on the relationship of theory to nursing research with an emphasis on explanatory and predictive theory development, analysis, evaluation and testing. Students are guided to consider how the nature of the research problem and theory guides the choice of research method. Emphasis is also placed on the identification, review, analysis, and integration of key theory concepts and relationships in the student’s own planned research.
- Successful passage of qualifying exams - designed to determine whether a student has acquired sufficient mastery of the evolution of nursing knowledge, nursing research, and theory development in nursing to warrant admission to candidacy for the PhD degree.

Assessment:

- Conduct original, ethical, and culturally competent research

- Generate important research questions from critical review of the literature.
- Evaluate qualitative methodology and descriptive and experimental methods in one of the following:
  - Apply a qualitative method in a rigorous manner
  - Apply a quantitative method in a rigorous manner
- Critique psycho/biometric properties of instruments used to measure bio-psycho-social phenomena.
- Evaluate advanced statistics: regression and other multivariate techniques.
- Manage and analyze the data.
- Generate a long-term plan for own program of research
forecasting sequential research questions and outlining sequence of future studies.

**Role of the Program:**
- Assignment of advisor to introduce students to research possibilities in the first semester.
- Student completes coursework in Statistics for Nursing Research, Measurement of Healthcare Phenomena, Management of Health Data and Quantitative and Qualitative Methods
- Completion of a Research Practicum with a faculty member in the CON or in a related field of interest
- Selection of Dissertation Chairperson (if not same as Advisor) and Committee after successful passage of qualifying exam.
- Chairperson and Committee members assist student to formulate research problem, identify research questions and hypotheses, conduct literature review and develop study design and methodology as Chapters 1-3 of dissertation
- Student defends dissertation proposal and secures IRB approval for dissertation research.
- Student collects, manages and analyzes data
- Student defends dissertation

**Collaborate effectively with other research disciplines and lead interdisciplinary research teams**

**Assessment:**
- Value contributions of other perspectives and disciplines to the research enterprise and to the advancement of knowledge.
- Demonstrate effective intra- and interdisciplinary communication skills.
- Collaborate effectively across disciplines through participation in multi-disciplinary team research.
- Collaborate effectively with interdisciplinary member of their dissertation committee.
- Manage various viewpoints from dissertation committee
members.

**Role of the Program:**
- Completion of a minimum of 6-9 credits in cognate courses, which are pertinent to the student’s area of study
- Selection of external interdisciplinary member of dissertation committee