Department: Nursing

NRSG 700 **Evolution of Nursing Science**
Semester: Fall

This course addresses the interrelationship between philosophy of science and nursing research. We will study the different philosophical traditions that underlie ways of generating knowledge such as pragmatism, empiricism, and phenomenology. Processes of theory development, theoretical critique, and the influence of other disciplines on nursing science are examined in relationship to contemporary nursing phenomena. Conceptualization of health phenomena by nursing and other disciplines will be explored through comparing and contrasting paradigms.

NRSG 705 **Endogenous and Exogenous Determinants of Human Health**
Semester: Fall

This course will enable students to explore endogenous mechanisms and exogenous factors that shape and affect the health of individuals and to become aware of the wide variety of measures and measurement techniques employed in their study. A main expectation of the course is that students will identify one or more mechanisms or factors contributing to the health of individuals or populations that likely will become the focus of subsequent study in the PhD program in nursing and that they will pursue that study with a broader appreciation of the context within which those mechanisms or factors make their contribution to health. A secondary expectation of the course is that students will appreciate the broad span and repertoire of measures that are available to researchers in their study of the health of individuals and populations.

NRSG 710 **Health Outcomes Research**
Semester: Fall

This is an interdisciplinary course that will focus on concepts of and contemporary approaches to the evaluation of health outcomes, health care effectiveness, cost-analyses, health resource utilization and evidence for practice. Interdisciplinary theoretical approaches from nursing and clinical sciences, health services research, health economics, decision-analysis, and quality improvement will be synthesized to create models for evaluation of health outcomes. Ethical concerns and health policy issues will be examined within the framework of health outcome research. Analysis of current health outcome studies from acute, primary, ambulatory and long-term care settings will be conducted by students with faculty guidance. Further, a large component of this course will be devoted to student presentation of research proposals, analysis, and defense of conclusions with integrated questioning and feedback from faculty

NRSG 730 **Measurement and Design in Clinical Research**
Semester: Spring

This course consists of two components: a 2 credit hour module focused on clinical measurement, and a 2 credit hour module focused on the design of clinical studies. Each module is designed separately; however, students will demonstrate integration of measurement and design module components through their development of the "Approach" section of an NIH/NRSA Individual Fellowship (F31) draft application. This course is taught in tandem with N732 which will provide instruction in the development of aims and the conceptual/theoretical underpinnings of a study and which will be used to guide the approach as developed in N730.

NRSG 731 **Advanced Application of Measurement Theory in Clinical Research**
Semester: Fall (even years)

This course builds upon, extends, and applies measurement content taught in NRSG 730. It focuses on using the principles of measurement to develop and test research instruments useful in clinical research investigations. Application and interpretation of advanced statistical procedures

within the context of measurement studies is also an emphasis. Special problems and issues in measurement are also considered

NRSG 732 Theoretical and Scientific Bases for the Study of Clinical Phenomena
Semester: Spring

The primary purpose of this course is to teach students how to derive hypotheses/research questions from an appropriate theoretical framework and within the larger scientific context, including the strategic and research priorities of national and international policy and research entities (e.g., the National Institutes of Health, including the NIH Roadmap). Issues surrounding the identification of discrete, clinical concepts and problems are analyzed. Theories appropriate for the study of the concept/problem are synthesized and critiqued. A suitable theoretical framework is then selected and linkages between the area of study and the larger scientific context are made explicit. Emphasis is placed on the role that theory plays in concept definition and measurement. Practical application, including development of the foundation for an NRSA research proposal (or other grant mechanism) and use of the dissertation as preliminary work upon which to build a more developed program of research, is highlighted.

NRSG 733 Health Risk Interventions and Outcomes
Semester: Spring (even years)

This course will enable students to analyze and synthesize theories, models, and research related to health risks. Genetic, social, cultural, behavioral, economic and environmental factors that contribute to health status are analyzed. Both modifiable and no modifiable risks will be addressed, but the focus will be on strategies to minimize or modify existing risk factors. Scientifically based interventions that may assist individuals and groups to achieve optimal health outcomes are developed and critiqued.

NRSG 734 Qualitative Research
Semester: Spring

This course is designed to provide the researcher with a beginning understanding of the purposes and implementation of qualitative research methods. The student will explore the philosophical orientations and techniques of a variety of qualitative methods, including design, implementation, analysis and presentation of qualitative research. Contemporary approaches to implementation of mixed methodology studies will be also introduced. Individual students will design a qualitative study in areas related to their research interests.

NRSG 736 Quantitative Analysis of Clinical Research
Semester: Fall (odd years)

This course builds on the required statistical sequence and focuses on practical application of statistics including understanding clinical research questions. Analyzing data is the major emphasis of the course including examining if assumptions of the statistical analysis are being met and interpreting the findings. Course assignments focus on using SPSS to analyze data sets from actual clinical research studies and interpretation of output and literature

NRSG 737 Biomethods in Health Related Research
Semester: Spring (even years)

This course will examine the principles and techniques of biological methods with an emphasis on their application to health related research. Theory and practical application of commonly used biological methods, on a small and large scale (OMICS), will be discussed

NRSG 739 Improving Outcomes in Chronic Health Conditions
Semester: Spring (odd years)

This course analyzes and synthesizes theories, models, and research related to chronic health risks. Genetic, social, cultural, behavioral, economic and environmental factors that contribute to chronic health status, acute exacerbations, modifiable and non-modifiable risks, and health resource use are included. Theories to guide research including symptom and self-management, health behavior, and motivation are included. Primary focus will be on strategies to minimize or modify existing risk factors and developing scientifically based interventions for prevention or to improve patient outcomes for chronic health conditions. Students will select a chronic condition of interest to focus on during the semester.

NRSG 790 **Teaching in the Nursing Profession**
Semester: Fall

This course builds on the summer course presented by the Graduate School of Arts and Sciences as the first step in the TATTO (Teaching Assistant Training andTeaching Opportunity) program. The purpose of this course is to introduce students to curriculum, pedagogical methods, student learning styles and classroom management. Students also will learn about the scholarship of teaching and develop a foundation for implementing classroom/educational research. Weekly seminars will address a wide range of topics related to teaching in a practice profession.

NRSG 795R **Advanced Research**
Semester: Fall, Spring, Summer

NRSG 797R **Directed Study**
Semester: Fall, Spring, Summer

NRSG 799R **Dissertation Research**
Semester: Fall, Spring, Summer