

## NURSING

## NUR

## College of Nursing

**110 Exploring Nursing**

Fall, Spring. 2(2-0)

Introduction to the bio-psycho-social conceptual model of persons in relation to nursing and health. Core concepts and theoretical foundations that frame the art and science of nursing. Development of the profession from inception into contemporary practice and its relationship to the U.S. healthcare system.

**220 Introduction to Nursing Scholarship**

Fall, Spring. 2(2-0) RB: Open to other majors with College approval. R: Open to students in the Prenursing major or in the Nursing major.

Prepares students to become consumers of research who critically evaluate and base their nursing care on evidence. Research methodologies essential to providing evidence-based nursing care.

**300 Pathophysiology**

Fall, Spring, Summer. 4(4-0) P: (ANTR 350) and (PSL 310 or PSL 250) RB: Preprofessional students entering patient care disciplines. Not open to students with credit in NUR 341.

How disrupting normal structures and functions of the human body leads to disease processes from the cellular to the multi-system level. Critical examination of the mechanisms underlying signs and symptoms.

**325 Transitions to BSN Practice**

Spring. 2(2-0)

Application of curricular concepts to nursing practice, role differentiation and contribution of BSN nurse to healthcare.

**330 Health Assessment and Nursing Therapeutics**

Fall, Spring, Summer. 7(3-10) P: NUR 300 R: Open to students in the Nursing major. C: PHM 350 concurrently and NUR 340 concurrently.

Normal physiology and pathophysiology. Theories of growth and development across the life span. Therapeutic communication and physical, psychosocial, cultural and spiritual assessment techniques and mastery of basic nursing therapeutics. Understanding the significance of abnormal physiological health transitions of the adult.

**336 Health Promotion for the BSN**

Summer. 4(4-0) RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing major.

Health promotion and risk reduction for individuals across the lifespan in the context of their families and environments including those from diverse and vulnerable populations.

**340 Foundations of Nursing Practice**

Fall, Spring, Summer. 4(4-0) P: (NUR 300) and completion of Tier I writing requirement C: PHM 350 concurrently or NUR 330 concurrently.

Theories and principles underlying professional nursing practice. Development of basic principles for using empirical evidence and the research process to guide practice.

**355 Integrative Seminar I**

Summer. 2(2-0) P: NUR 300 RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing major. C: NUR 340 concurrently.

Critical appraisal of literature related to health promotion and risk reduction in preparation for an evidence based practice project.

**360 Acute Nursing Care of Adults and Older Adults**

Fall, Spring. 8(4-12) P: NUR 330 and NUR 340 C: NUR 370 concurrently.

Integration of concepts and theories into beginning level Nursing practice. Examination of dynamic interrelationship between professional, scholarly nursing practice, and the health and wellness of diverse persons and populations across the life span.

**370 Mental Health and Psychiatric Nursing**

Fall, Spring. 4(2-6) P: NUR 330 and NUR 340 C: NUR 360 concurrently.

Extension of foundational social science concepts into nursing therapeutics aimed at mental health and the care of persons with mental illnesses. Medication and non-medication interventions, group interventions, and therapeutic environments.

**400 Pharmacology for Nurses**

Spring. 3(3-0) P: NUR 313 and NUR 319 and NUR 341

Principles of nursing management in drug therapy, drug classifications and patient-related variables. Assessment and evaluation of patient responses in relation to health, age, lifestyle, gender, ethnicity and other cultural factors.

**402 Global Health**

Spring. 3(3-0) Spring: Abroad and Africa.

Factors and dynamics that affect the health of human populations and population status. Role of national governments and international agencies in the policy and planning of health care resources and services.

**422 Nursing in London**

Summer. 5(5-0) R: Approval of college; application required.

Historical evolution of nursing in the National Health Service: British nursing education, hospital and community health nursing, standards of care, research, and management. Influence of professional nursing upon British national health policies.

**424 History of Nursing in the United States**

Spring. 2(2-0)

Development of professional nursing education and practice from its inception in the United States. Reading historical documents and identifying specific concepts relative to nursing history. Historical research as a valid means of scholarly inquiry.

**426 Theoretical Basis for Critical Care**

Fall, Spring, Summer. 2(2-0) P: NUR 304 or NUR 360 R: Open to seniors in the College of Nursing.

Nursing care of clients in critical care, requiring synthesis of pathophysiologic, pharmacologic, and therapeutic concepts. Family theory, stress-adaptation, psychosocial concepts and legal and ethical issues.

**429 Health Care in Ghana**

Summer. 2(2-0) Summer: Abroad and Africa. R: Approval of college.

Major health issues and health care system in western and traditional Ghana culture. Health status indicators and determinants; major programs and strategies; organization of the health care system; access to and payment for care; role, image and status of health care providers; and the interface between western and traditional Ghana health care.

**435 Nursing Care of the Childbearing Family**

Fall, Spring. 4(2-6) P: NUR 360 and NUR 370 C: NUR 440 concurrently.

Health promotion and risk assessment of individuals and families during pregnancy and birth. Therapeutic communication and assessment skills for providing holistic care to culturally diverse childbearing families during the prenatal, intrapartum, and postpartum periods. Caring for mother and baby in utero and after birth.

**440 Nursing Care of Children, Adolescents and Their Families**

Fall, Spring. 4(2-6) P: NUR 360 and NUR 370 C: NUR 435 concurrently.

Theoretical concepts and clinical application of nursing care of infants, children, and adolescents in varied health care and community settings. Synthesis of pathophysiologic, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures.

**441 Future of Nursing: Graduate Education**

Fall, Spring. 2(2-0) P: NUR 450 or concurrently R: Open to students in the Nursing major.

Options for graduate education in nursing. Students will develop post-BSN professional goals. Identify potential clinical focus and population of interest for research/scholarship/practice. Completion of an application to the graduate program of their choice.

**450 Integrative Seminar**

Fall, Spring. 2(4-0) C: NUR 435 concurrently or NUR 440 concurrently.

Integration of concepts and theories into intermediate-level nursing practice. Dynamic interrelationship between professional, evidence-based practice, and health and wellness throughout the lifespan.

**451 Honors Research Internship**

On Demand. 2 to 3 credits. P: NUR 220 RB: Students must provide a copy of Human Subjects and HIPAA approval to supervising faculty member. R: Open to students in the Nursing major or in the Prenursing major.

Immersion in the research process in the College of Nursing working directly with a nurse researcher in the context of a funded/non-funded research team.

**455 Integrative Seminar II**

Fall. 2(2-0) P: NUR 340 and NUR 336 and NUR 355 and NUR 400 RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing major. Not open to students with credit in NUR 450. C: NUR 465 concurrently.

Integration of professional and scholarly nursing practice culminating in an evidence based practice project.

## Nursing—NUR

- 460 Leadership Clinical Immersion**  
Fall, Spring, Summer. 5(2-9) P: (NUR 435 and NUR 440 and NUR 450) and completion of Tier I writing requirement C: NUR 470 concurrently or NUR 480 concurrently.  
Theories, principles, and practices of leadership, management, and nursing care delivery systems in a variety of agency settings. Application of theories and principles in a mentored practicum.
- 465 Leadership Immersion**  
Fall. 4(3-1) P: NUR 355 and NUR 340 and NUR 336 and NUR 400 RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing major. Not open to students with credit in NUR 460. C: NUR 455 concurrently.  
Integration and application of theories, principles and practices of nursing leadership and management into contemporary practice settings.
- 470 Community and Population Health Nursing**  
Fall, Spring, Summer. 4(2-6) P: NUR 435 and NUR 440 and NUR 450 C: NUR 460 concurrently and NUR 480 concurrently.  
Theoretical and practicum basis for community-oriented population nursing practice. Promoting and protecting the health of the public using health promotion, risk reduction, and disease management and control strategies with vulnerable persons and populations. Community assessment, epidemiologic, environmental, change, political action, and case-management frameworks are used to guide evidence-based nursing care delivery to persons, families, and populations in community settings.
- 480 Role Transition Seminar**  
Fall, Spring, Summer. 3(6-0) P: (NUR 450) and completion of Tier I writing requirement C: NUR 460 concurrently or NUR 470 concurrently.  
Advanced-level evidence-based practice for transition to entry-level nursing. Ethical decision and policy-making at the organization level.
- 485 Integrative Seminar III**  
Spring. 2(2-0) P: NUR 355 and NUR 340 and NUR 400 and NUR 455 and NUR 336 RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing major. Not open to students with credit in NUR 480. C: NUR 470 concurrently.  
Examination of the influence and responsibility of professional nursing to society
- 490 Independent Study in Nursing**  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in the College of Nursing. Not open to PreNursing majors. Approval of college.  
Individualized area of study in Nursing.
- 491 Special Topics**  
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the College of Nursing. Not open to PreNursing majors.  
Exploration of selected issues in nursing.
- 802 Theoretical Foundations and Role Development for the Advanced Practice Nurse**  
Fall. 3(3-0) R: Open to graduate students in the College of Nursing. Not open to students with credit in NUR 801 or NUR 803.  
Integration of theories from nursing and related disciplines to provide a foundation for the graduate student to transition into the advanced practice role.
- 804 Statistics for the Healthcare Professional**  
Fall, Spring. 3(3-0) R: Open to graduate students.  
Basic understanding of descriptive statistics, probability, linear regression and epidemiological concepts.
- 805 Pathophysiology for Advanced Practice Nursing**  
Fall. 3(3-0) R: Open only to masters students in the College of Nursing or approval of college. SA: NUR 511  
Alterations of various physiological systems. Pathophysiology of frequently encountered primary care conditions across the life span and special populations. In-depth case analysis of risk factors, pathophysiological changes, and associated clusters of signs and symptoms. Pathophysiological theories and research as a basis for advanced practice nursing.
- 806 Research for Advanced Practice Nurses**  
Spring. 3(3-0) P: NUR 802 and NUR 804 R: Open to graduate students in the College of Nursing.  
Prepares advanced practice Nurses who are proficient in the ethical utilization and clinical application of research including problem identification and evaluation to provide high quality care and improve practice.
- 807 Clinical Decision Making**  
Spring. 3(1-6) P: NUR 805 and (NUR 820 or NUR 835 or NUR 860) R: Open to masters students in the College of Nursing.  
Clinical decision making in advanced practice nursing. Decision theory and related concepts. Application of critical thinking and clinical judgment to differential diagnoses of common primary care conditions.
- 809 Applied Pharmacology for Advanced Practice Nursing**  
Spring, Summer. 3(3-0) P: NUR 805  
Clinical application of advanced pharmacology and pharmacotherapeutics for common disease conditions. Principles of altered pharmacodynamics relative to age, race, and ethnic groups. Cost and benefit aspects of pharmacological interventions.
- 814 Health Care Policy and Politics**  
Spring. 3(3-0) P: NUR 802 R: Open to graduate students in the College of Nursing. Not open to students with credit in NUR 841.  
Nursing and public policy formation in relation to healthcare systems organization, financing, regulation, ethics, and delivery of services within a global society.
- 820 Health Assessment of the Family**  
Fall. 3(1-6) RB: Open only to students in the Nurse Practitioner concentration. R: Open to masters students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
Advanced assessment component of the nursing process to analyze the health status of children and adults across the lifespan.
- 821 Primary Care Management of the Family I**  
Summer. 5(3-6) P: NUR 802 and NUR 806 and NUR 807 and NUR 820 R: Open to masters students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate. SA: NUR 522  
Principles and issues of health care management for family advanced practice nurses in primary care. Health promotion, disease prevention, and single acute problems of individuals across the life span and for diverse populations. Analysis of primary care practice topics using family frameworks and evidence based research.
- 822 Practicum I: Primary Care for the Family**  
Fall. 6(0-18) P: NUR 821 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate. SA: NUR 522  
Integration of assessment and applied theory in primary care management of clients across the life span. Collaborative model of primary care practice. Health promotion, health maintenance management, and risk reduction strategies for individuals within the context of family. Single acute condition focus. Problem-oriented format for organizing client data.
- 823 Primary Care Management of the Family II**  
Fall. 3(3-0) P: NUR 821 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate. SA: NUR 524  
Principles and issues of health care management for family advanced practice nurses in primary care. Health care management of clients across the life span with chronic, stable and/or multiple complex problems. Integration and synthesis of relevant frameworks.
- 824 Practicum II: Primary Care for the Family**  
Spring. 7(0-21) P: NUR 822 and NUR 823 R: Open to graduate students in the Nurse Practitioner Graduate Certificate or in the Master of Science in Nursing. SA: NUR 524  
Integration of assessment and applied theory in primary care management of clients across the lifespan. Collaborative model of primary care practice. Health care management of chronic, stable and multiple complex problems of individuals within the context of family. Increasingly independent decision making with preceptor validation.
- 832 Practicum I: Primary Care for the Adult and Aged**  
Fall. 6(0-18) P: NUR 836 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
Integration of assessment and applied theory in clinical care management of the adult and aged. Health promotion/wellness, health maintenance/management and risk reduction strategies. Acute conditions. Interpretation and integration of various forms of patient health data. Collaborative, collegial model of practice.

- 834 Practicum II: Primary Care for the Adult and Aged**  
 Spring. 7(0-21) P: NUR 832 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
 Integration of assessment and applied theory in clinical management. Management of acute and chronic health problems, promotion of rehabilitation and health maintenance for adult and aging individuals across a variety of environments. Provision of specialized, culturally appropriate care to aging individuals, family members and the community. Collaborative, interdisciplinary model of practice.
- 835 Health Assessment of the Adult and Aged**  
 Fall. 3(1-6) RB: Successful completion of basic physical/health assessment course. R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
 Advanced health assessment skills to provide comprehensive, culturally sensitive care to adults and aging individuals. Interviewing techniques, communication, interpersonal skills and psychomotor skills. Analysis of health status including the role of risk factors and health promotion strategies. Emphasis placed on functional implications. Interpretation of data for the purpose of differentiating typical from atypical presentations and recognizing actual and potential health problems.
- 836 Primary Care Management of the Adult and Aged I**  
 Spring. 5(3-6) P: NUR 835 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
 Principles and issues of health care management for adult and gerontological advanced practice nurses. Health promotion, risk identification, disease prevention, and acute problems for the adult and aged from culturally diverse backgrounds. The role of risk factors and normal aging changes on health. Analysis of adult and aging health topics using appropriate models, frameworks, and evidence-based research.
- 837 Primary Care Management of the Adult and Aged II**  
 Fall. 3(3-0) P: NUR 836 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
 Health care management of the adult and aged individual with stable chronic, co-morbid, complex problems and geriatric syndromes utilizing clinically relevant research and evidence-based, age appropriate, guidelines. Planning and implementing therapeutic interventions to return the patient to a stable state and to optimize health. Minimizing physical and psychological complications and maximizing health potential. Integration and synthesis of relevant theories and frameworks. Coordination of care.
- 838 Care for Aging Individuals Across the HealthCare Continuum**  
 Summer. 1(1-0) P: NUR 802 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
 Regulations, financing methods, forms of service delivery, and management methods in care of the older adult within a variety of health care environments. Aging of the American society, the impact of the baby-boomer generation, consumer choice, and the growing diversity in care options, focusing on long-term care.
- 841 Health Care Policy in Perspective: Economics, Politics and Ethics**  
 Spring. 2(2-0) SA: NUR 503  
 Economic, political and regulatory environment of the U.S. health care system. Quality, costs, equity in access of services. Comparison of U.S. systems with those of other advanced industrial countries.
- 860 Physical Assessment for Clinical Nurse Specialist**  
 Spring. 2(1-3) P: NUR 805 R: Open to masters students in the Master of Science in Nursing.  
 Development of advanced health history and physical assessment skills for adult populations for clinical nurse specialist.
- 861 Curriculum Design in Nursing Education**  
 Fall. 3(3-0) P: NUR 802 RB: Open only to masters students in Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Clinical Nurse Specialist Graduate Certificate or in the Master of Science in Nursing.  
 Analysis and application of theories, principles, and concepts associated with curriculum development, design, and evaluation.
- 862 Clinical Nurse Specialist Role Internship**  
 Fall. 8(2-18) P: NUR 807 RB: Open only to master's students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Role development of the clinical nurse specialist as an applied nurse scientist, expert in nursing practice, and professional leader.
- 864 Clinical Nurse Specialist Role Immersion**  
 Spring. 6(1-15) P: NUR 862 and (NUR 814 or concurrently) RB: Open only to master's students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Clinical Nurse Specialist Graduate Certificate or in the Master of Science in Nursing.  
 Synthesis, integration, and clinical application of the essential concepts and knowledge associated with the roles of the clinical nurse specialist.
- 865 Nursing Education Seminar**  
 Spring. 2(2-0) RB: Open only to students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Syntheses of teaching and learning, curricular development, and learner-evaluation theories and strategies. Curricular design and unique characteristics of academic and clinical instruction and learning.
- 866 Academic and Clinical Teaching Internship**  
 Spring. 3(1-6) P: NUR 861 RB: Open only to masters students in Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Guided field internship within an academic or health care setting. Synthesis and application of concepts to facilitate development of the advanced practice nurse as scholar, teacher, and collaborator.
- 867 Clinical Internship in Nursing Education**  
 Spring. 4(1-9) P: NUR 861 RB: Open only to students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Application and evaluation of teaching and learning principles in a diverse health care setting.
- 868 Topics in Nursing Education**  
 Fall. 3(3-0) RB: Open only to master's students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Integration of concepts of teaching, learning, evaluation, and assessment applicable to nursing education within a variety of settings.
- 874 Clinical Practicum I**  
 Spring. 3(0-15) P: NUR 886 RB: Open only to students in the Nurse Anesthesia concentration. R: Open to graduate students in the Master of Science in Nursing.  
 Individualized faculty-guided instruction in the management of patients receiving anesthesia, emphasizing safety, monitoring modalities, and simulated patient experiences. Experiences include introduction to the role of the nurse anesthetist and development of basic nurse anesthesia skills.
- 877 Anesthesia Physiology and Pathophysiology**  
 Spring. 3(3-0) R: Approval of college.  
 Physiological principles and pathophysiological relationships of body systems. Evaluation of co-existing pathophysiology.
- 878 Advanced Physiology and Pathophysiology**  
 Summer. 3(3-0) P: NUR 877  
 Homeostatic mechanisms in relation to anesthetic case management.
- 879 Chemistry and Physics of Anesthesia**  
 Spring. 3(3-0) R: Approval of college.  
 Basic chemistry and physics and their relationship to nurse anesthesia practice. Organic and biochemical principles, and pharmacological significance. Integration and application of these principles to nurse anesthesia practice.
- 880 Health Assessment for Nurse Anesthesia**  
 Summer. 3(1-6) P: NUR 877  
 Advanced systematic focus on the health assessment of patients preparing for anesthesia, and integration of the anesthesia management plans.
- 881 Perioperative Technology and Instrumentation**  
 Summer. 2(2-0) P: NUR 879  
 Physics and mechanics of mechanical and electronic anesthesia delivery systems. Physical principles involved in the vaporization and distribution of volatile liquids. Anesthesia ventilators and breathing circuits. Risk management and analysis of resuscitative equipment.
- 882 Principles of Anesthesia I**  
 Summer. 3(3-0) P: NUR 879  
 Art and science of nurse anesthesia and basic principles of anesthesia practice. History of anesthesia administration. Use and care of anesthesia related equipment.
- 883 Principles of Anesthesia II**  
 Fall. 3(3-0) P: NUR 882  
 Advanced anesthesia care principles. Procedures and complications in the anesthetic management of the emergency and trauma patient. Considerations for specialty surgical areas.
- 884 Principles of Anesthesia III**  
 Spring. 3(3-0) P: NUR 883  
 Foundations for the clinical practice of anesthesia. Integrating physiologic patient parameters, didactic knowledge, and technical skills in simulated and clinical environments.

## Nursing—NUR

- 885 Anesthesia Practicum I**  
Summer. 1(0-3) P: NUR 879  
Design and management of the operating room. Principles and techniques of sterility, intravenous and arterial cannulation, and course of anesthesia. Basic drugs and monitors, anesthesia management plan, documentation, and ethical considerations in anesthesia practice.
- 886 Anesthesia Practicum II**  
Fall. 2(0-6) P: NUR 885  
Integration of knowledge, skills and program objectives to a broader array of patients in simulated and clinical patient environments.
- 887 Pharmacology for Anesthesia Practice I**  
Fall. 3(3-0) P: NUR 877  
Pharmacology and its applications to clinical anesthesia practice.
- 888 Pharmacology for Anesthesia Practice II**  
Spring. 3(3-0) P: NUR 887  
Pharmacologic principles of drug pharmacokinetics and pharmacodynamics. Factors modifying anesthetic management of patients.
- 890 Special Problems**  
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to masters students in the College of Nursing or approval of college. SA: NUR 590  
Individual or group in-depth study of specific areas in nursing. Independent study.
- 890B Special Problems**  
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Approval of college.  
Individual or group in-depth study of specific areas in nursing. Independent study.
- 891 Selected Topics**  
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to masters students in the College of Nursing or approval of college. SA: NUR 591  
Selected issues, trends, programs, or theories in nursing.
- 892 Clinical Practicum II**  
Summer. 7(0-35) P: NUR 874 and NUR 884  
RB: Open only to students in the Nurse Anesthesia concentration. R: Open to graduate students in the Master of Science in Nursing.  
Individualized faculty-guided instruction in the management of patients receiving anesthesia, emphasizing safety, monitoring modalities, and simulated patient experiences. Experiences include the roles of the nurse anesthetist on the anesthesia care team and development of basic nurse anesthesia skills.
- 893 Clinical Practicum III**  
Fall. 7(0-35) P: NUR 892 RB: Open only to students in the Nurse Anesthesia concentration. R: Open to graduate students in the Master of Science in Nursing.  
Clinical application of principles of nurse anesthesia. Students will be precepted in the perioperative clinical site. Experiences include development of advanced skills specific to the role of the nurse anesthetist.
- 894 Clinical Practicum IV**  
Spring. 7(0-35) P: NUR 893 RB: Open only to students in the Nurse Anesthesia concentration. R: Open to graduate students in the Master of Science in Nursing.  
Clinical application of principles of nurse anesthesia. Students will be precepted in the perioperative clinical site. Experiences include application of advanced skills specific to the role of the nurse anesthetist. The final clinical experience demonstrated substantial progress toward self direction and independent practice.
- 895 Clinical Seminar I**  
Summer. 2(2-0) P: NUR 886  
Anesthesia management plans and outcomes. Evaluation of research and other literature pertinent to the safe practice of anesthesia.
- 896 Clinical Seminar II**  
Fall. 2(2-0) P: NUR 895  
Review of research literature relevant to the safe practice of anesthesia. Presentation of case studies as related to pathophysiological states and safe anesthesia delivery.
- 897 Clinical Seminar III**  
Spring. 2(2-0) P: NUR 896  
Review of research literature and clinical projects relevant to the safe practice of anesthesia. Presentation of scholarly project.
- 899 Master's Thesis Research**  
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: NUR 811 R: Open only to masters students in the College of Nursing. Approval of college.  
Master's thesis research.
- 901 Knowledge Development in Nursing**  
Fall. 3(3-0) R: Open only to doctoral students in the College of Nursing or approval of college.  
Development and growth of substantive knowledge within nursing. Middle range theories. Strategies for concept development and theory testing in nursing research for understanding health status and health outcomes for individuals, families and community-based primary care.
- 910 Health Status Outcomes: The Individual and Family**  
Spring. 3(3-0) R: Open to doctoral students or approval of college.  
Measurement and conceptual underpinnings of health status outcomes for individuals and families across the life span. Focus on well-being in health and illness within the health care system.
- 911 Health Status Outcomes: Community/Primary Care**  
Fall. 3(3-0) R: Open to all doctoral students or approval of college.  
Measurement of health status outcomes for populations across the life span within the community based primary care systems. Measurement and evaluation issues related to the costs of intervention to impact outcomes.
- 920 Translation of Research and Scientific Knowledge to a Community Setting**  
Spring. 3(3-0) R: Open to doctoral students in the Nursing major or approval of college.  
Systematic approach to translating evidenced based knowledge to inform nursing clinical practice, policy and delivery system change. Translation strategies to enhance public health status and health outcomes.
- 930 Methods In Clinical Research**  
Spring. 3(3-0) R: Open to doctoral students in the College of Nursing or approval of college.  
Advanced research designs, measurement and data collection strategies. Draws on a broad range of behavioral and health disciplines relevant to nursing. Logic of statistical models used in the evaluation of research designs and measures.
- 940 Research Practicum**  
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to doctoral students in the Nursing major or approval of college.  
Participation in ongoing funded research as a member of an interdisciplinary research team.
- 945 Doctoral Seminar I**  
Fall. 1(1-0) R: Open to graduate students in the Nursing major or approval of college.  
Socialization and immersion into doctoral study and research environment while completing Master's level courses or for other special students.
- 946 Doctoral Seminar II**  
Spring. 1(1-0) R: Open to graduate students in the Nursing major or approval of college.  
Socialization and immersion into doctoral education and research environment while completing Master's and beginning level courses, building on NUR 945 content.
- 950 Nursing Research Seminar I**  
Fall. 1(1-0) R: Open to doctoral students in the College of Nursing or in the Nursing major or approval of college.  
Socialization of doctoral study and research environment. Roles and responsibilities of clinical nurse researcher. Pragmatic facets of research process and environment.
- 951 Nursing Research Seminar II**  
Spring. 1(1-0) P: NUR 950 R: Open to doctoral students in the College of Nursing or in the Nursing major or approval of college.  
Continuation of NUR 950. Socialization to doctoral study and research environment. Responsibilities of clinical nurse researcher including responsible conduct of research. Synthesis of course work and relevant research methodologies into own research. Dissemination of research.
- 960 Scientific Foundations of Nursing**  
Fall. 3(3-0) R: Open to doctoral students in the College of Nursing.  
Critically examines factors contributing to the evolution of the development of nursing. Analyze philosophical, epistemological and historical influences on the profession.
- 961 Leadership I: Organizational Leadership**  
Fall. 3(3-0) R: Open to doctoral students in the College of Nursing.  
Analysis and evaluation of organization and leadership theories and their relationship to complex health care systems. Strategies for effective leadership include systems thinking, organizational culture, communication, resource utilization, ethics, and change models required to lead cost-effective quality and safety improvements within health care organizations and in an interdisciplinary environment.

**962 Analytical Methods for Evidence-Based Practice**

Fall. 3(3-0) P: NUR 960 or concurrently R: Open to doctoral students in the College of Nursing.

Integrate and critically evaluate knowledge from diverse sources to develop the best evidence-based practice guidelines for improving health outcomes. Explore rigorous methodologies to design, implement, and evaluate evidence-based interventions

**963 Leadership II: Leadership in Complex Healthcare Organizations**

Fall. 3(3-0) P: NUR 961 R: Open to doctoral students in the College of Nursing.

Interprofessional collaboration within complex health care organizations and systems to transform the delivery of health care to improve access, quality, and safety across diverse populations. Strategies to address organizational challenges and facilitate system wide changes important to the practice environment of the advanced practice nurse will be explored. Group dynamics within health care organizations and communities will be examined with an emphasis on communication patterns, resource allocation, strategic planning, and quantitative decision making models to formulate policy.

**964 DNP Practicum I**

Spring. 3 credits. P: NUR 960 and NUR 961 R: Open to doctoral students in the College of Nursing.

Provides the clinical opportunity to analyze, synthesize, and implement integrated nursing knowledge and skills in achieving patient and health system outcomes system's assessment and needs analysis within the healthcare environment.

**965 DNP Practicum II**

Spring. 3 credits. P: NUR 964 R: Open to doctoral students in the College of Nursing.

Builds on NUR 964. Provides opportunities to engage in increasingly complex organizational projects. Participates in implementation of evidence-based initiatives to improve health outcomes and system effectiveness.

**989 DNP Synthesis Project**

Spring. 1 to 3 credits. A student may earn a maximum of 16 credits in all enrollments for this course. P: NUR 962 and NUR 920 and NUR 964 R: Open to doctoral students in the College of Nursing.

Application of nursing and leadership theories for the development implementation and evaluation of an evidence-based intervention to improve health care outcomes for a selected population or system outcomes for a selected organization.

**990 Special Problems**

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to doctoral students in the College of Nursing or approval of college.

Individual or group in-depth study of specific areas in nursing research.

**991 Special Topics**

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to doctoral students in the Nursing major or approval of college.

Special topics which supplement regularly-offered courses.

**999 Doctoral Dissertation Research**

Fall, Spring, Summer. 1 to 24 credits. R: Open only to doctoral students in the College of Nursing or approval of college.

Original research of student under supervision of major advisor.