

## NURSING

## NUR

## College of Nursing

- 205 Introduction to Professional Nursing**  
Fall, Spring, Summer. 4(2-6) P: CEM 143 and PSY 101 and HDFS 225 RB: Not open to RN-BSN students. R: Open to students in the Nursing Major.  
Principles and practices of holistic nursing care that allow for analysis of a comprehensive collection of patient data to provide basic clinical care to the adult population.
- 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. SA: NUR 341 Not open to students with credit in NUR 301.  
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.
- 301 Clinical Pathophysiology**  
Fall, Spring, Summer. 3(3-0) P: {(PSL 250 or PSL 310) or (PSL 431 and PSL 432)} and ANTR 350 R: Open to students in the College of Nursing. Not open to students with credit in NUR 300.  
How disrupting normal structures and functions of the human body leads to disease processes from the cellular to the multisystem level. Critical examination of the mechanisms underlying signs and symptoms of diseases.
- 322 Nursing Care of Acute and Chronically Ill Patients I**  
Fall, Spring, Summer. 4(2-6) P: NUR 301 or NUR 300 C: NUR 205 concurrently and PHM 350 concurrently.  
Focuses on using the nursing process and clinical judgment at a beginning level to provide care for acute and chronically ill patients.
- 323 Nursing Care of the Acute and Chronically Ill Patients I**  
Fall, Spring, Summer. 5(2-9) P: (NUR 300 or NUR 301) and (MMG 201 and MMG 302) and (NUR 205 and PHM 350)  
Nursing process and clinical judgment to provide care for chronically and acutely ill adult patients at a novice level.
- 324 Health Promotion and Disease and Injury Prevention I**  
Fall, Spring, Summer. 3(2-3) P: HDFS 225 and HNF 150 C: NUR 205 concurrently and NUR 322 concurrently.  
Principles and practices of health education, health promotion/behavior change, and health literacy through understanding epidemiology, determinants of health, and protective and predictive factors of health and well-being.
- 325 Transitions to BSN Practice**  
Fall, Spring. 2(2-0) P: NUR 300 or NUR 301 R: Open to students in the Nursing Major.  
Application of curricular concepts to nursing practice, role differentiation and contribution of BSN nurse to healthcare.
- 332 Nursing Care of Acute and Chronically Ill Patients II**  
Fall, Spring. 5(2-9) P: (NUR 322 and NUR 324) and (MMG 201 or MMG 301) C: NUR 334 concurrently and NUR 371 concurrently.  
Focuses on using the nursing process and clinical judgment at an intermediate level to manage care for acute and chronically ill patients.
- 333 Health Promotion**  
Fall, Spring, Summer. 4(3-3) P: HDFS 225 and HNF 150 and NUR 205 and NUR 301 and PHM 350 and MMG 201 and MMG 302  
Principles and practices of health promotion/risk reduction through understanding and developing health capacity for populations, families, and individuals.
- 334 Health Promotion and Disease and Injury Prevention II**  
Fall, Spring. 3(2-3) P: NUR 322 and NUR 324 C: NUR 332 concurrently and NUR 371 concurrently.  
Principles and practices of health promotion, risk reduction, and injury prevention to provide nursing care for individuals, families, and communities across the lifespan.
- 336 Health Promotion for the BSN**  
Spring, 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.
- 337 Nursing Care of Acute and Chronically Ill Patients II**  
Fall, Spring. 6(3-9) P: NUR 323 and NUR 333  
Nursing process and clinical judgment to manage care for acute and chronically ill patients at an intermediate level.
- 340 Foundations of Nursing Practice**  
Fall, Spring, Summer. 4(4-0) P: (NUR 300 or NUR 325 or concurrently) and completion of Tier I writing requirement  
Theories and principles underlying professional nursing practice. Development of basic principles for using empirical evidence and the research process to guide practice.
- 342 Research, Ethics, and Evidence-Based Practice I**  
Fall, Spring. 3(3-0) P: (STT 200 or STT 201) and ((NUR 323 and NUR 333) and completion of Tier I writing requirement)  
Evidence-based practice and research methodology to inform ethical nursing practice.
- 355 Integrative Seminar I**  
Spring, Summer. 2(2-0) P: NUR 325 and NUR 340 RB: Registered Nurse admitted to the RN-BSN program. R: Open to students in the Nursing Major.  
Critical appraisal of literature related to health promotion and risk reduction in preparation for an evidence based practice project.
- 371 Behavioral Health Nursing**  
Fall, Spring. 4(2-6) P: NUR 323 and NUR 333  
Extension of foundational social science concepts into nursing therapeutics aimed at behavioral health and the care of persons with mental illnesses
- 375 Research and Evidence-Based Practice**  
Fall, Spring, Summer. 2(2-0) P: (STT 200 or STT 201 or NUR 332 or NUR 334 or NUR 371) and completion of Tier I writing requirement C: NUR 436 concurrently and NUR 437 concurrently and NUR 445 concurrently.  
Introduction to basic research methodology and how it informs evidence-based nursing practice.
- 422 Nursing in London**  
Summer. 6(6-0) 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.
- 423 Transitional Needs in Adults with Intellectual and/or Developmental Disabilities**  
Fall, Spring, Summer. 3(3-0)  
Analyze the complex transitional needs of adults with intellectual and/or developmental disabilities.
- 434 Nursing Care of Acute and Critically Ill Patients**  
Fall, Spring. 4(2-6) P: NUR 337 and NUR 371 and NUR 342  
Nursing process and clinical judgment to manage and evaluate care for acute and critically ill patients at an advanced level.
- 436 Nursing Care of Children and Their Families**  
Fall, Spring. 2(1-3) P: NUR 332 and NUR 334 and NUR 371 and NUR 375 C: NUR 437 concurrently.  
Theoretical concepts and clinical application of nursing care for ill children and adolescents using a holistic perspective in varied settings.
- 437 Nursing Care of the Childbearing Family**  
Fall, Spring. 2(1-3) P: NUR 332 and NUR 334 and NUR 371 and NUR 375 C: NUR 436 concurrently and NUR 445 concurrently.  
Theoretical concepts and clinical application of nursing care for the normal and at risk childbearing families using a holistic perspective in varied settings.

## NUR—Nursing

- 438 Nursing Care of Children and their Families**  
Fall, Spring. 3(1-6) P: NUR 337 and NUR 371 and NUR 342  
Theoretical concepts and clinical application of nursing care for ill children and adolescents using a holistic perspective in varied settings.
- 439 Nursing Care of the Childbearing Family**  
Fall, Spring. 3(2-3) P: NUR 337 and NUR 371 and NUR 342  
Theoretical concepts and clinical application of nursing care for the normal and at risk childbearing families using a holistic perspective in varied settings.
- 441 Future of Nursing: Graduate Education**  
Fall, Spring. 2(2-0) P: NUR 322 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.
- 442 Research, Ethics, and Evidence-Based Practice II**  
Fall, Spring, Summer. 3(3-0) P: (NUR 342 and NUR 434 and NUR 438 and NUR 439) and completion of Tier I writing requirement  
Application of evidence based practice and research methodology to inform ethical nursing practice.
- 445 Nursing Care of Acute and Critically Ill Patients**  
Fall, Spring. 6(3-9) P: NUR 332 and NUR 334 and NUR 371 and NUR 375 C: NUR 436 concurrently and NUR 437 concurrently.  
Focuses on using the nursing process and clinical judgment at an advanced level to manage and evaluate care for acute and critically ill patients.
- 451H Honors Research Internship**  
Fall, Spring, Summer. 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, Summer. 2(2-0) P: NUR 336 and NUR 355 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.
- 460 Leadership in Clinical Practice**  
Fall, Spring, Summer. 5(2-9) P: NUR 434 and NUR 438 and NUR 439  
Precepted practicum to facilitate the student's transition to professional practice. Application of leadership concepts, theories, and principles.
- 465 Leadership Immersion**  
Fall, Summer. 4(3-1) P: NUR 355 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 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 455 and NUR 465  
Theoretical and practicum basis for community-oriented population nursing practice.
- 471 Public Health Nursing**  
Fall, Spring, Summer. 3(2-3) P: NUR 434 and NUR 438 and NUR 439  
Use of the public health system to care for populations, including application of the principles and practices of public health nursing.
- 475 Ethical Practice**  
Fall, Spring, Summer. 2(2-0) C: NUR 460 concurrently.  
Ethical theory, reasoning, and decision-making with application to clinical practice both as ethical compartment in clinical relationships and resolution of situations of ethical uncertainty and conflicts.
- 481 Scholarship for Nursing Practice (W)**  
Fall, Spring, Summer. 2(2-0) P: (NUR 445 and NUR 436 and NUR 437) and completion of Tier I writing requirement C: NUR 475 concurrently.  
Examines the dynamic interrelationship among professional scholarly nursing practice, the health and wellness of diverse populations and high quality safe health care organizations.
- 485 Integrative Seminar III**  
Fall, Spring. 2(2-0) P: NUR 455 and NUR 465 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: Approval of college.  
Individualized area of study in nursing.
- 491 Special Topics**  
On Demand. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of college.  
Exploration of selected issues in nursing.
- 802 Theoretical Foundations and Role Development for the Advanced Practice Nurse**  
Fall, Spring. 3(3-0) R: Open to graduate students in the College of Nursing.  
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 master's 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**  
Fall, Spring. 3(3-0) R: Open to graduate students in the College of Nursing.  
Prepares advanced practice nurses to be proficient in the ethical and clinical application of research including problem identification and critically evaluate the evidence to provide high quality care and improve practice.
- 807 Clinical Decision Making**  
Spring, Summer. 3(1-6) P: (NUR 805) and (NUR 820 or NUR 835 or NUR 860) R: Open to master's 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 master's students in the Nurse Practitioner Graduate Certificate or in the Master of Science in Nursing.  
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 master's 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 Across the Lifespan**  
 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. 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**  
 Summer. 5(3-6) P: NUR 835 and NUR 807 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**  
 Spring. 1(1-0) P: NUR 802 R: Open to graduate students in the Master of Science in Nursing or approval of college; application required.  
 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.
- 860 Physical Assessment for Clinical Nurse Specialist**  
 Spring. 2(1-3) P: NUR 805 R: Open to master's students in the Master of Science in Nursing.  
 Development of advanced health history and physical assessment skills for clinical nurse specialist.
- 861 Curriculum Design in Nursing Education**  
 Summer. 3(3-0) P: NUR 802 RB: Open only to master's students in Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students 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.
- 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.
- 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.

## NUR—Nursing

- 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.
- 885 Anesthesia Practicum I**  
Summer. 1(0-7) 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 master's 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 master's 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 master's students in the College of Nursing. Approval of college.  
Master's thesis research.
- 901 Knowledge Development in Nursing**  
Spring. 3(3-0) R: Open 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.
- 902 Scientific Foundations for the Advanced Practice Nurse**  
Fall. 3(3-0) R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Analysis and translation of knowledge gained from the natural and social sciences to inform practice and provide a foundation for the Advanced Practice Nurse role.
- 903 Healthcare Informatics**  
Fall. 3(3-0) P: NUR 902 or concurrently R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Health information systems and technologies in relationship to the delivery of efficient, high quality healthcare.
- 904 Health Policy and Advocacy**  
Fall, Summer. 3(3-0) P: NUR 902 or concurrently R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Interactions between economics, ethical principles, social policies, legislative and regulatory processes that influence access, delivery and organization of healthcare.

- 905 Patient Safety, Quality Improvement and Quality Management in Healthcare**  
Fall, Spring. 3(3-0) P: NUR 902 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Application and evaluation of quality improvement initiatives through the use of theories, models and outcome measurements.
- 906 Leadership in Complex Health Systems**  
Fall, Spring, Summer. 3(3-0) P: NUR 902 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Knowledge, skills and attributes required to assume leadership as an Advanced Practice Registered Nurse in complex health systems.
- 907 Advanced Pathophysiology for the Advanced Practice Registered Nurse**  
Fall. 3(3-0) R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Advanced physiological and pathophysiological mechanisms of the body system to provide the Advanced Practice Registered Nurse a foundation for patient assessment, clinical decision making, and management.
- 908 Advanced Physical Assessment for the Advanced Practice Registered Nurse**  
Spring. 3(2-3) R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Comprehensive assessment including history, physical and psychological assessment of signs and symptoms, pathophysiologic changes, and psychosocial variations of the patient. Specific assessment related to Nurse Anesthetist, Clinical Nurse Specialist and Nurse Practitioner practice will be a focus in the practical experience of students.
- 909 Advanced Pharmacology for the Advanced Practice Registered Nurse**  
Spring, Summer. 3(3-0) R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Application of pharmacotherapeutics for disease conditions including knowledge of pharmacokinetics, pharmacodynamics, pharmacogenetics, pharmacy and toxicology used to guide selection of interventions.
- 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.
- 912 Health Promotion – Family**  
Spring, Summer. 3(3-0) P: NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of concepts, theories and principles of population health, health promotion and disease prevention at the advanced practice level across the lifespan.
- 913 Health Promotion – Adult-Gerontology**  
Spring, Summer. 3(3-0) P: NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of concepts, theories and principles of population health, health promotion and disease prevention at the advanced practice level for adults and older adults.
- 915 Clinical Diagnosis and Management I - Family**  
Fall. 6(3-9) P: NUR 912 and NUR 907 and NUR 908 and NUR 909 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of health assessment and diagnostic testing to formulate differential diagnoses for common health conditions/problems across the lifespan.
- 916 Clinical Diagnosis and Management II – Family**  
Spring. 6(3-9) P: NUR 915 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of assessment and intervention strategies for health promotion and common problems in the clinical setting across the lifespan.
- 917 Clinical Diagnosis and Management III – Family**  
Summer. 6(3-9) P: NUR 916 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Principles and management strategies used to construct personalized care plans for individuals including diverse and at risk populations across the lifespan.
- 918 Clinical Diagnosis and Management IV – Family**  
Fall. 6(2-12) P: NUR 917 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integrates evidence-based strategies to deliver collaborative primary care practice across the wellness/illness continuum with patients across the lifespan.
- 919 Clinical Diagnosis and Management V- Clinical Immersion – Family**  
Spring. 6(2-12) P: NUR 918 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Evidence-based management of chronic stable and complex problems within collaborative practice in complex health systems across the lifespan.
- 920 Translation of Research and Scientific Knowledge to a Practice Setting**  
Spring. 3(3-0) P: NUR 924 and NUR 939 or approval of college R: Open to doctoral students in the College of Nursing or in the Nursing Major or approval of college.  
Systematic approach to translating evidenced based knowledge to inform nursing practice, policy and delivery system change. Translation strategies to enhance health outcomes in the areas of wellness, risk reduction and chronic illness
- 921 Scientific Foundations of Nursing Knowledge Development**  
Fall. 3(3-0) R: Open to graduate students in the College of Nursing.  
Philosophical, epistemological, ontological, and ethical foundations of nursing. Historical factors and new perspectives in the evolution of nursing theory.
- 922 Wellness and Risk Reduction Behaviors**  
Spring of odd years. 3(3-0) R: Open to graduate students in the College of Nursing.  
Current state of the science related to wellness and risk reduction behaviors and interventions to improve health outcomes for various populations across the lifespan.
- 923 Self and Symptom Management in Chronic Illness**  
Spring of even years. 3(3-0) R: Open to graduate students in the College of Nursing.  
Current state of the science related to self and symptom management and interventions to improve chronic illness outcomes for various populations across the lifespan.
- 924 Designing Interventions for Improving Health Outcomes**  
Summer. 3(3-0) P: NUR 921 and NUR 939 or approval of college R: Open to doctoral students in the College of Nursing or in the Nursing Major.  
Foundation for designing, implementing and evaluating nursing interventions for wellness, risk reduction, and chronic illness management across the lifespan.
- 925 Clinical Diagnosis and Management I – Adult-Gerontology**  
Fall. 6(3-9) P: NUR 908 and NUR 909 and NUR 913 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of health assessment and diagnostic testing to formulate differential diagnoses for common health conditions/problems in adults and older adults
- 926 Clinical Diagnosis and Management II – Adult-Gerontology**  
Spring. 6(3-9) P: NUR 925 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integration of assessment and intervention strategies for health promotion and common problems in the clinical setting for adults and older adults.

## NUR—Nursing

- 927 Clinical Diagnosis and Management III – Adult-Gerontology**  
Summer. 6(3-9) P: NUR 926 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Principles and management strategies used to construct personalized care plans for individuals including diverse and at risk populations with adults and older adults
- 928 Clinical Diagnosis and Management IV – Adult-Gerontology**  
Fall. 6(2-12) P: NUR 927 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Integrates evidence-based strategies to deliver collaborative primary care practice across the wellness/illness continuum for adults and older adults.
- 929 Clinical Diagnosis and Management V - Clinical Immersion – Adult-Gerontology**  
Spring. 6(2-12) P: NUR 928 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Evidence-based management of chronic stable and complex problems within collaborative practice in complex health systems with adults and older adults
- 930 Methods In Clinical Research**  
Summer. 3(3-0) P: NUR 924 and NUR 939 or approval of college R: Open to doctoral students in the College of Nursing or approval of college.  
Advanced research designs, measurement and data collection strategies for a broad range of behavioral and health disciplines relevant to wellness, risk reduction, and chronic illness.
- 931 Wellness Promotion for Diverse Populations**  
Spring. 3(3-0) P: NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Introduction to the Clinical Nurse Specialist's role and responsibilities with emphasis on population health, promotion of wellness, and disease prevention.
- 932 Clinical Decision Making and Management of Acute Chronic Complex Conditions**  
Summer. 6(3-9) P: NUR 902 and NUR 908 and NUR 931 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Clinical Nurse Specialist role in direct care incorporating a patient centered holistic approach in evidence-based management of healthcare.
- 933 Clinical Nurse Specialist Advanced Practice Role Development I**  
Fall. 6(3-9) P: NUR 909 and NUR 932 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Role development of the Clinical Nurse Specialist as an applied nurse scientist, expert in nursing practice and professional leader.
- 934 Clinical Nurse Specialist Advanced Practice Role Development II**  
Spring. 6(3-9) P: NUR 905 and NUR 933 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Role development of the Clinical Nurse Specialist expert in nursing practice, staff development, and quality improvement.
- 935 Clinical Nurse Specialist Advanced Practice Role Development III**  
Summer. 6(3-9) P: NUR 934 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.  
Developing, leading and participating in the elements of process/quality improvement using principles of improvement science.
- 936 Clinical Nurse Specialist Specialty Role Immersion I**  
Fall. 3(0-9) P: NUR 935 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Clinical application of the essential knowledge, skills, and values associated with the student-selected specialized practice role of the Clinical Nurse Specialist.
- 937 Clinical Nurse Specialist Specialty Role Immersion II**  
Spring. 3(0-9) P: NUR 936 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Continuation of NUR 936. Capstone.
- 939 Improving Health Outcomes: Scientific Foundations**  
Spring. 4(4-0) P: NUR 921 or approval of college R: Open to doctoral students in the College of Nursing or in the Nursing Major.  
Application of the state of the science to wellness, risk reduction and chronic illness outcomes for populations across the lifespan from a nursing perspective.
- 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.
- 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 student to doctoral study and research environment. Roles and responsibilities of clinical nurse researcher including responsible conduct of research.
- 951 Nursing Research Seminar II**  
Spring. 1(1-0) P: NUR 950 or approval of college R: Open to doctoral students in the College of Nursing or in the Nursing Major or approval of college.  
Continuation of NUR 950 to advance development as a clinical scholar, program of study, and plan toward unique area of inquiry.
- 952 Psychopharmacology and Neuropathological Basis of Mental Illness**  
Summer. 3(3-0) R: Open to graduate students or lifelong graduate students in the College of Nursing.  
Advanced pharmacology and psycho-pharmacotherapeutics and the putative neuropathophysiology of common psychiatric illnesses that occur across the lifespan.
- 953 Clinical Diagnosis and Management I - Psychiatric Assessment and Diagnosis**  
Fall. 6(3-9) P: NUR 907 and NUR 908 and NUR 909 and NUR 952 R: Open to graduate students in the College of Nursing.  
Mental health assessment and diagnostic screening to formulate differential diagnoses for common mental health conditions/problems across the lifespan.
- 954 Clinical Diagnosis and Management II – Evidence-Based Therapeutic Interventions**  
Spring. 6(3-9) P: NUR 953 R: Open to graduate students in the College of Nursing.  
Assessment and intervention strategies for health promotion and common mental health problems in the clinical setting across the lifespan.
- 955 Clinical Diagnosis and Management III – Special Populations and Group**  
Summer. 6(3-9) P: NUR 954 R: Open to graduate students in the College of Nursing.  
Assessment, intervention, including group psychotherapy, and management strategies for special and vulnerable populations with mental health problems across the lifespan.
- 956 Clinical Diagnosis and Management IV – Complex and Collaborative Mental Health Care**  
Fall. 6(2-12) P: NUR 955 R: Open to graduate students in the College of Nursing.  
Evidence-based strategies to deliver collaborative mental health care across the wellness/illness continuum with patients across the lifespan.
- 957 Clinical Diagnosis and Management V – Clinical Immersion – Psychiatric Mental Health**  
Spring. 6(2-12) P: NUR 956 R: Open to graduate students in the College of Nursing.  
Evidence-based management of chronic stable and complex mental health problems within collaborative practice in complex health systems across the lifespan.
- 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**  
Summer. 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**  
Summer. 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**  
Fall, Spring, Summer. 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**  
Fall, Spring, Summer. 3 credits. P: NUR 964 R: Open to doctoral students in the College of Nursing.  
Provides opportunities to engage in increasingly complex organizational projects. Participates in implementation of evidence-based initiatives to improve health outcomes and system effectiveness.
- 966 Applied Chemical and Physical Principles of Anesthesia Practice**  
Fall. 3(3-0) R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Combined coverage of chemical and physical principles and their applied relationship to nurse anesthesia practice.
- 967 Basic Principles of Anesthesia**  
Summer. 4(4-0) R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Fundamental anesthesia principles that underpin the development and implementation of a safe anesthetic plan.
- 968 Advanced Physiology and Pathophysiology for Anesthesia Practice I**  
Spring. 4(4-0) R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Physiological basis of cellular and tissue functions and the consequences of their dysregulation on essential homeostatic processes in cells, compartments and primary organ systems.
- 969 Advanced Physiology and Pathophysiology for Anesthesia Practice II**  
Summer. 4(4-0) P: NUR 968 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
In-depth study of human physiology and pathophysiology using a systems approach. Emphasis is placed on those physiologic and pathophysiologic alterations that affect homeostasis in humans across the life span.
- 970 Pharmacology for Nurse Anesthesia I**  
Summer. 3(3-0) P: NUR 909 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Basic science of pharmacology used in anesthesia practice.
- 971 Pharmacology for Nurse Anesthesia II**  
Fall. 3(3-0) P: NUR 970 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Advanced principles of anesthesia and pharmacology and the synthesis of these concepts into a safe, cost-effective, patient-specific delivery plan.
- 972 Advanced Principles of Anesthesia I**  
Fall. 3(3-0) P: NUR 967 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Anesthetic delivery to patients with increasing comorbidities and complex anesthesia needs. Advanced airway management, regional anesthesia and chronic pain management.
- 973 Advanced Principles of Anesthesia II**  
Spring. 3(3-0) P: NUR 972 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Advanced concepts related to nurse anesthesia practice including management of pediatric, obstetric, neurologic, trauma, vascular and cardiothoracic procedures
- 974 Introduction to Clinical Practicum**  
Summer. 1(0-8) R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major. C: NUR 967 concurrently.  
Application of basic anesthesia cognitive, affective and psychomotor skills in a simulated environment
- 975 Clinical Anesthesia Practicum I**  
Fall. 3(0-24) P: NUR 974 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Integration of theory with practice in a clinical and simulated setting with emphasis on basic principles of anesthesia and professional standards of practice for the certified registered nurse anesthetist.
- 976 Clinical Anesthesia Practicum II**  
Spring. 2(0-16) P: NUR 975 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Supervised instruction in the clinical management of patients receiving all types of anesthesia in a variety of clinical settings.
- 977 Clinical Anesthesia Practicum III**  
Summer. 3(0-24) P: NUR 976 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Supervised instruction in the clinical management of medically complex patients undergoing surgical and diagnostic procedures.
- 978 Clinical Anesthesia Practicum IV**  
Fall. 4(0-32) P: NUR 977 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Supervised instruction in the perioperative clinical site. Development of advance skills with an emphasis on specialty areas such as cardiovascular, neurosurgical, trauma, obstetrics and pediatrics.
- 979 Clinical Anesthesia Practicum V**  
Spring. 4(0-32) P: NUR 978 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Supervised clinical practicum for patients undergoing complex surgical procedures using the entire spectrum of anesthesia practice.
- 980 Clinical Anesthesia Practicum VI**  
Summer. 4(0-32) P: NUR 979 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Supervised clinical practicum on professional aspects of nurse anesthesia and team leadership
- 981 Anesthesia Seminar I**  
Spring. 3(3-0) P: NUR 979 or concurrently R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
Professional aspects related nurse anesthesia practice. Focus on historical perspectives, professional role, anesthesia business practices and professional wellness.
- 982 Anesthesia Seminar II**  
Summer. 3(3-0) P: NUR 981 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.  
A comprehensive review and synthesis of anatomy, chemistry, physics, pharmacology, physiology and pathophysiology and principles of anesthesia in preparation for the national certification exam.
- 989 Doctor of Nursing Practice Synthesis Project**  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course. R: Open to doctoral students in the College of Nursing.  
Demonstrate synthesis of didactic coursework and application to practice by learning a practice change innovation to address a health care problem and improve health outcomes.
- 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.

## NUR—Nursing

### 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.

### 994 Effective Interdisciplinary Research Collaborations

On Demand. 3(3-0) Interdepartmental with Communication Arts and Sciences and Engineering. Administered by Communication Arts and Sciences. RB: Students should have background or expertise in technology, nursing, health, and/or communication. Students should have applied research interests. R: Open to graduate students in the College of Communication Arts and Sciences and open to graduate students in the College of Engineering and open to graduate students in the College of Nursing.

Interdisciplinary research methods, techniques, approaches, and funding. Applied research on issues that crosscut communication, nursing, and engineering.

### 995 Doctor of Nursing Practice Project I

Summer. 4(2-4) P: (NUR 902 and NUR 903 and NUR 905 and EPI 810) and (NUR 916 or NUR 926 or NUR 934 or NUR 976) R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.

Introduction of the scholarly practice project for the advanced practice nurse.

### 996 Doctor of Nursing Practice Project II

Fall. 3(0-6) P: NUR 904 and NUR 906 and NUR 995 R: Open to doctoral students in the College of Nursing or in the Nursing Practice Major.

Implementation of the scholarly practice project for the advanced practice nurse.

### 997 Doctor of Nursing Practice Project III

Spring. 3(0-6) P: NUR 996 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Evaluation and dissemination of the scholarly practice project for the advanced practice nurse.

### 998 Application of Scientific Knowledge in a Clinical Practicum

On Demand. 1 to 3 credits. R: Open to doctoral students in the College of Nursing.

Advanced clinical and research skills needed to identify clinical problems and develop research questions to advance science related to improving health outcomes.

### 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.