

Nursing

- Doctor of Nursing Practice (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/nur-dnp/>)
- Doctor of Philosophy in Nursing (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/nur-pdh/>)
- Master of Science in Adult Gerontology Primary Care Nurse Practitioner (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/adultgerontologyprimarycarenursepractitioner/ms/>)
- Master of Science in Family Nurse Practitioner (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/familynursepractitioner/ms/>)
- Nurse Educator (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/nurseeducation/>)
 - Master of Science in Nurse Educator (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/nurseeducation/nur-ne/>)
 - Nurse Educator Certificate Program (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/postmasterscertificatesinnursing/ne-cert/>)
- Post-Baccalaureate Doctor of Nursing Practice (DNP) (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/post-bach-dr-dnp/>)
- Psychiatric Mental Health Nurse Practitioner (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/psychiatricmentalhealthnursingnursepractitioner/>)
 - Master of Science in Psychiatric Mental Health Nurse Practitioner (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/psychiatricmentalhealthnursingnursepractitioner/pmhnnp-ms/>)
 - Post-Graduate APRN Certificate (Psychiatric Mental Health Nurse Practitioner) (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/nursing/psychiatricmentalhealthnursingnursepractitioner/cert/>)

Certificate in Adult-Gerontology Acute Care Nurse Practitioner Post-Graduate

NURS 500. Theories/Concepts Nursing. 3 Credits.

The focus of this core course is on analysis of current nursing and related theories and concepts which guide clinical practice, curriculum development, research, and nursing administration.

NURS 502. Evidence for Practice. 3 Credits.

This course emphasizes the application of basic research concepts to the building of evidence-based practice in nursing. Advanced competencies are developed in searching and evaluating the literature, examining the merit of different types and levels of evidence, and analyzing the generalizability and implications for clinical practice. Corequisite: Admission to one of the Graduate Nursing Tracks, NURS 500 and statistics and/or permission of instructor. F,S.

NURS 504. Advanced Pharmacology I. 3 Credits.

Pharmacodynamic and pharmacokinetic principles with a focus on clinical anesthesia practice. Physiologic systems and drug classifications are used; emphasis on therapeutic use, side effects, drug interactions, and contraindications of drugs used for intravenous anesthesia induction, inhalation, and balanced anesthesia maintenance. Pediatric and geriatric variations will be addressed. Prerequisite: Admission to Nurse Anesthesia Specialization.

NURS 505. Advanced Pharmacology. 3 Credits.

The focus of this course is on the basic and advanced clinical concepts of pharmacology for the advanced practice nurse. Medication selection and administration will be addressed. Anatomy, physiology, and pathophysiology will be reviewed as appropriate to the physiologic system or medication class being discussed. Evidence-based guidelines with respect to the clinical application of medications utilized in selected acute and chronic health problems will be explored. Prerequisite or Corequisite: Admission to Graduate Nursing Program. F.

NURS 506. Advanced Pharmacology II. 3 Credits.

Advanced pharmacology for clinical nurse anesthesia practice. Prerequisite: NURS 504.

NURS 507. Anesthesia Seminar and Clinical Practicum. 4 Credits.

This course is designed to provide nurse anesthesia students an overview of the basic principles and skills needed to care for the routine surgical patient. Topics include difficult airway management, patient monitoring, patient preparation, positioning, patient safety, fluid and electrolyte management, documentation of anesthesia care, and an introduction to regional anesthesia. Analysis, integration, and utilization of research to improve practice is emphasized. The lecture content is reinforced through Clinical Simulation and laboratory experiences, allowing for immediate application of the lecture content and integration into the clinical setting. Students are introduced to the clinical setting through observational and hands-on experiences. Includes a clinical and/or laboratory component. Prerequisite: NURS 521.

NURS 508. Nurse Anesthesia Review Course. 1 Credit.

The focus of this course is to provide nurse anesthesia students with a comprehensive review of the principles of anesthesia in preparation for the NBCRNA National Certification Examination (NCE). The course is designed to help improve the student's performance on the NCE. The course will include a comprehensive review of NCE content, a comprehensive examination, general discussion, interactive learning activities, student presentations, and question/answer sessions. Prerequisite: Completion of Nurse Anesthesia coursework. SS.

NURS 509. Foundations for Nurse Education. 3 Credits.

This course begins to compare and contrast multiple roles and responsibilities of nurse educators in various settings in academic and health service. It will build the conceptual foundation for educational processes with emphasis on ethics, learning theories, taxonomies of learning and current evidence necessary for development of competencies necessary for the practice of educating. Students will begin to formulate their individual philosophy of teaching and learning. Prerequisite: Admission to the Nursing Graduate Program or consent of the instructor. Prerequisite or Corequisite: NURS 500 or consent of the instructor. S.

NURS 510. Adv Physiology/Pathophysiology I. 3 Credits.

This course presents normal physiologic functions associated with cellular structure and environment. The physiologic and pathophysiological functions of the human body and its organ systems are presented both separately and integrated as they contribute to body homeostasis. Prerequisite: Admission to graduate study. F.

NURS 511. Adv Physiology/Pathophys II. 3 Credits.

Physiologic and pathophysiological functions of the human body and its organ systems, both separately and integrated in whole activities. Prerequisite: NURS 510 or consent of instructor.

NURS 514. Essentials in Epidemiology. 3 Credits.

This course will emphasize the application of the principles of epidemiology as applied to the investigation and prevention of individual and population health problems. Students will evaluate care delivery models and analyze epidemiological data to develop and apply strategies for health promotion and disease prevention for individuals, aggregates, and populations. The core competencies will focus not only on the practice of public health, but also enhance practice for the clinician. Prerequisite: Admission to the Graduate School, MPH Program, or permission of the instructor. F,S.

NURS 515. Basic Principles of Anesthesia Practice I. 4 Credits.

This course provides an introduction to the fundamental principles necessary for the safe, professional, and individualized anesthetic care of diverse patients. Foundational concepts such as chemistry and physics as they apply to anesthesia practice, pharmacology of anesthetic agents, uncomplicated airway management, anesthesia delivery systems, and physiological monitoring will be investigated. Low and high fidelity patient simulation will be utilized to develop the student's cognitive and psychomotor skills which are essential to clinical anesthesia management. The course will conclude with a clinical component designed to acclimate beginning nurse anesthesia students to the clinical anesthesia arena. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. F.

NURS 516. Basic Principles of Anesthesia Practice II. 4 Credits.

This course builds upon the fundamentals covered in Basic Principles of Anesthesia I, all of which are necessary for the safe, professional, and individualized anesthetic care of diverse patients. Concepts such as basic perioperative anesthetic management, pain management, regional anesthesia, difficult airway management, effective oral and written communication, and patient and healthcare provider safety are emphasized. Low and high fidelity patient simulation will be utilized to develop the student's cognitive and psychomotor skills which are essential to clinical anesthesia management. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S.

NURS 517. Anesthesia Seminar and Clinical Practicum II. 5 Credits.

This course builds on the foundations learned in the prerequisite course. Advanced anesthesia principles are applied to various patient populations including the surgical patient with cardiovascular and respiratory diseases. Anesthesia care of other surgical populations including the trauma, orthopedic, urological, vascular, intra-abdominal and ENT patient will be explored. Important concepts include anatomical, physiological and pathophysiological, and pharmacological principles. Analysis, integration, and utilization of research to improve practice is emphasized. The lecture content is reinforced through simulated laboratory experiences, allowing for immediate application of the lecture content and integration into the clinical setting. A clinical rotation is included. Prerequisite: NURS 507.

NURS 518. Pharmacotherapeutics for Nurse Anesthesia. 2 Credits.

The focus of this course is on advanced clinical concepts of pharmacology relevant to the nurse anesthetist during the perioperative period. This course utilizes concepts from NURS 505 Advanced Pharmacology and further advances the student's knowledge in pharmacological concepts related to the practice of anesthesia. This course will examine the clinical application of anesthesia specific pharmacologic principles into formulating anesthetic plans for diverse patient populations. Prerequisite or Corequisite: NURS 505; Admission to the DNP Program - Nurse Anesthesia Track. S.

NURS 520. Prof Role Dvlpmnt/Nurse Anesthesia. 3 Credits.

The focus of this course is on the identification and analysis of the professional components of nurse anesthesia practice, emphasizing role development; management and leadership; medical, ethical and legal responsibilities; the provision of culturally competent care; and scope of professional practice. Other areas that will be explored include quality improvement, the legislative process, credentialing, professional organizations, conflict resolution, and self-care and stress management for the anesthetist. An in-depth analysis of current trends and issues affecting healthcare and the delivery of anesthesia services are included in the course content. Prerequisite: NURS 521 and NURS 507. Corequisite: NURS 517.

NURS 521. Foundations of Anesthesia Practice. 3 Credits.

This course provides the foundation for nurse anesthesia practice. Lecture and discussion begin with an analysis of the history of anesthesia nursing, professionalism, and standards of care for the anesthetist. Safety in the nurse anesthesia environment will be emphasized. Additional content includes the applied chemical, physical, and biochemical concepts as they relate to anesthesia practice, including the mechanisms of anesthesia, medical mathematics, medical gas systems, laws governing gases, the anesthesia machine, monitoring principles and equipment, airway equipment and basic airway management, and universal precautions. Prerequisite: Admission to the Nurse Anesthesia Specialization.

NURS 522. Advanced Pathophysiology. 3 Credits.

This course presents a system-focused approach to alterations in normal physiological mechanisms that result in pathologic disease processes. Physiological changes are compared and contrasted over the lifespan and developmental cellular physiology, pathogenesis and clinical manifestations commonly observed in altered health states are reviewed. This knowledge serves as the foundation for advanced clinical assessment, decision making and management for the advanced practice nurse. Prerequisite: Admission to graduate study. F,S,SS.

NURS 523. Health Promotion. 3 Credits.

Paradigms in health promotion, health detection, and disease prevention across the lifespan are used in synthesis in theory and evidence-based primary care interventions. Prerequisite: Admission to the Nursing Graduate Program or consent of the instructor. F,S.

NURS 524. Anatomy for Nurse Anesthetists. 1 Credit.

This course builds upon the concepts and fundamentals of Basic Principles of Anesthesia I and II as it relates to the detailed regional anatomy of the human body. A cadaver laboratory experience will be utilized throughout the course to develop the student's understanding of clinical anatomy related to the airway, central nervous system, peripheral nerves, cardiovascular system, and pulmonary system with an anesthesia context. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S.

NURS 525. Applied Multivariate Statistics. 3 Credits.

Principles, assumptions and applications of major multivariate statistical techniques commonly used in nursing and clinical health research. Prerequisite: Graduate level univariate statistics and admission to the Nursing Doctoral Program or consent of the instructor. F.

NURS 526. Ethical, Legal and Health Policy Issues. 2 Credits.

This course emphasizes health policy issues within the context of legal and ethical concepts. Students will examine and debate health policies in current practice, thus broadening their ability to analyze, implement, and evaluate health policy issues. Prerequisite: Admission to Graduate Nursing or consent of the instructor. F,S,SS.

NURS 527. Anesthesia Seminar and Clinical Practicum III. 5 Credits.

This course further builds on the foundations learned in prerequisite courses. Students will incorporate previously learned anatomy, physiology, pathophysiology, and patient management into the care of subspecialty patients and patients with complex co-existing diseases. Advanced anesthesia principles are applied to the OB, pediatric, geriatric, and neuro patient. The pharmacology and anesthesia management of these subspecialty populations and patients with various disease states, such as kidney, musculoskeletal, and endocrine disorders, will be explored. Analysis, integration, and utilization of research to improve clinical practice is emphasized. The lecture content is reinforced with a clinical experience that emphasizes anesthesia care for subspecialty populations. A clinical/laboratory component is included. Prerequisite: NUR 517.

NURS 528. Advanced Principles of Anesthesia Practice I. 5 Credits.

This course builds upon the nurse anesthesia foundations covered previously in the Basic Principles of Anesthesia I and II courses. An evidence based approach to the anesthetic evaluation, planning, and management of diverse and increasingly complex patient populations, such as those with pre-existing respiratory, cardiac, and renal diseases, will be the focus. The hands-on administration of safe, individualized, and comprehensive anesthetic plans of care to both simulated and actual patients will be introduced and emphasized. Low and high fidelity patient simulation will be utilized to continue developing the student's cognitive and psychomotor skills which are essential to perform clinical anesthesia management. A clinical component will allow the student to apply theoretical principles to nurse anesthesia practice and to increase their clinical skills, knowledge, and autonomy. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. SS.

NURS 529. Advanced Principles of Anesthesia Practice II. 7 Credits.

This course builds on the foundations covered in Basic Principles of Anesthesia I and II along with Advanced Principles I including the evaluation, planning, and management of diverse and increasingly complex patient populations. Evidence-based advanced principles of anesthesia care will be investigated in order to construct and implement comprehensive and individualized anesthetic plans of care for the management of subspecialty patients. Obstetrical and pediatric populations, as well as patients with complex co-existing diseases and/or those undergoing complex surgical procedures will be the focus. Low and high fidelity patient simulation will be utilized to continue developing the student's cognitive and psychomotor skills which are essential to perform clinical anesthesia management. A clinical component will allow the student to apply theoretical principles to nurse anesthesia practice and to increase their clinical skills, knowledge, and autonomy. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. F.

NURS 531. Adult-Gerontology Illness Management I. 3 Credits.

This is the first of a two-course sequence that focuses on evidenced-based primary care diagnosis and management of common episodic/chronic problems encountered by young adults, adults and older adults and their social network in ambulatory, inpatient, and community settings. Physiological, psychosocial, and pharmacological interventions are integrated into the holistic care that incorporates age-related, cultural, family, and community variations. An on-campus intensive is required for this course. Prerequisite: NURS 511 and NURS 585. Corequisite: NURS 597. F.

NURS 532. Family Centered Advanced Practice Nursing. 3 Credits.

Theoretical and scientific foundations for advanced practice nursing care for the family-as-a-unit in health and illness across the lifespan. Prerequisite: Admission to graduate nursing or permission of the instructor. F,S,SS.

NURS 533. Adult-Gerontology Illness Management II. 3 Credits.

This is the second of a two-course sequence that focuses on evidenced-based primary care diagnosis and management of common episodic/chronic problems encountered by young adults, adults and older adults and their social network in ambulatory, inpatient, and community settings. Physiological, psychosocial, and pharmacological interventions are integrated into the holistic care that incorporates age-related, cultural, family, and community variations. An on-campus intensive is required for this course. Prerequisite: NURS 531. Corequisite: NURS 597. S.

NURS 534. Management of Health Conditions in Primary Care I. 3 Credits.

This is the first of a two-course sequence that focuses on evidenced-based primary care diagnosis and management of common episodic/chronic problems encountered by adults, including young adults, middle aged adults and older adults and their social network in ambulatory, inpatient, and community settings. Physiological, psychosocial, and pharmacological interventions are integrated into the holistic care that incorporates age-related, cultural, family, and community variations. Prerequisite: Admission to graduate study, NURS 522 and NURS 585. Corequisite: NURS 597 (II). F,S,SS.

NURS 536. Advanced Nurse Educator Practice of Health Promotion. 2 Credits.

This practicum course affords the Nurse Educator student with opportunities to develop advanced skills in teaching-learning practices in the rural health care environments. The student will apply educational theories and best-evidence teaching strategies with a particular emphasis in education related to health promotion strategies. This course will include topics such as the Nurse Educator role to promote health in rural communities, assess health literacy, and develop appropriate patient educational materials. The practicum emphasizes health promotion education to meet diverse needs of rural dwelling patients, families and groups. Prerequisite: NURS 500, NURS 511, NURS 539, and NURS 514. Corequisite: NURS 526, and NURS 569. F.

NURS 538. Psych Diagnostic Reasoning. 2 Credits.

This course prepares students for advanced therapeutic communication, interviewing, and assessment of people with mental illness across the life span. Skills are developed in differential diagnoses of psychopathology within the scope and standards of advanced psychiatric mental health nursing practice. Clinical application is included. Prerequisite: Acceptance into the PMHNP program or permission of instructor. S.

NURS 540. Management of Health Conditions in Primary Care II. 3 Credits.

Clinical decision making skills are developed in the diagnosis and management of acute and chronic health conditions throughout the lifespan. Health promotion, health protection, and disease prevention are emphasized. Prerequisite: NURS 534. F,S,SS.

NURS 541. Illness Management - Adult Gerontology I. 3 Credits.

This is the first of a two-course sequence focusing on evidence-based primary care specific to the adult-gerontology population which includes adolescents, young adults and frail, older adults. This course prepares students to provide healthcare services across the adult-gerontology age spectrum from wellness to illness, using scientific knowledge and theoretical foundations to differentiate between normal and abnormal changes in physiological, psychological and sociological development and aging. Students will develop strategies to provide and coordinate interdisciplinary and holistic care that incorporates age-related, cultural, family, and community variations. Prerequisite: NURS 522, NURS 585, and NURS 597 (I). Corequisite: NURS 597 (II). F,S,SS.

NURS 542. Professional Aspects of Nurse Anesthesia Practice. 4 Credits.

This course provides the entry-level nurse anesthesia student with a foundational knowledge of professional aspects related to nurse anesthesia practice. The focus of this course is on historical perspectives, professional role development, anesthesia business practices, and professional wellness. The student will also participate in non-patient DNP practice experience to apply concepts related to the AACN DNP Essentials. Prerequisite: Admission to the DNP Program - Nurse Anesthesia Track. F.

NURS 543. Illness Management - Adult Gerontology II. 3 Credits.

This is the second of a two-course sequence that focuses on evidence based primary care specific to the adult-gerontology populations which includes adolescents and young adults to frail, older adults. Course work focuses on evidence based acute and chronic care diagnosis and management of common episodic acute and chronic problems encountered by the adult - gerontological population. Physiological, psychosocial, and pharmacological assessments, including changes associated with aging and development across the adolescent - adult continuum are integrated into the formation of differential diagnosis and interventions of clinical problems in collaboration with other care providers. Prerequisite: NURS 541 and NURS 597 (II). Corequisite: NURS 597 (III). F,S,SS.

NURS 544. Pharmacotherapeutics for Primary Care. 2 Credits.

This course will help prepare the advance practice nursing student for prescriptive authority. Topics will focus on decision making regarding the pharmacological management of common acute and chronic illnesses encountered in primary care settings. Pharmacokinetics, pharmacodynamics, adverse drug reactions, and contraindications will be discussed. Ethical and legal principles of writing prescriptions will also be covered. Students will synthesize research findings related to various medications using case study and discussion. Prerequisite: Admission to graduate nursing and NURS 505, or consent of the instructor. F,S,SS.

NURS 545. Care of the Frail Older Adult. 3 Credits.

In this course the advanced practice nursing student will focus on the complex and multifactorial health care needs of frail elders. Students will develop strategies to provide and coordinate interdisciplinary and holistic care of the frail elderly in a variety of settings. Prerequisite: Admission to graduate nursing or consent of instructor. F,S,SS.

NURS 551. Advanced Health Assessment for Nurse Anesthetists. 3 Credits.

An evidence based approach to the development of advanced assessment skills for the nurse anesthetist to formulate the anesthetic evaluation and overall assessment of diverse and increasingly complex patient populations. Individual and group collaboration will emphasize course objectives. Low and high fidelity patient simulators will be utilized to continue developing the student's cognitive and psychomotor assessment skills. Prerequisite: Admission to the DNP Nurse Anesthesia Program; Completion of an undergraduate course in health assessment techniques. Prerequisite or Corequisite: Completion or concurrent enrollment in Advanced Pathophysiology, or its equivalent. S.

NURS 553. Role Development of the Nurse Practitioner. 2 Credits.

This course emphasizes professional role development of the nurse practitioner. Students will compare and contrast the various roles of the nurse practitioner and evaluate those roles as they relate to the student's individual planned area of practice. The multi-dimensional role of the nurse practitioner as a clinician, advocate, educator and member of the health care team is explored from a historical and current perspective. Prerequisite: Admission to graduate study. F,S,SS.

NURS 554. Writing for Publication. 1 Credit.

The course is designed to provide students with the knowledge and skills necessary to meet the Ph.D. program requirement and milestone of preparing and submitting two manuscripts to be submitted for publication in peer-reviewed journals. A review of literature manuscript must be submitted to a publisher for peer review to receive credit for this course. Acceptance or publication of the manuscript is not required for the course, but it is expected to be published, even if not accepted initially. Prerequisite: Consent of Instructor or Advisor. S/U grading. SS.

NURS 555. Grant Submission. 1 Credit.

This course is proposed to result in the development and submission of a pre-doctoral, externally fundable research grant proposal with Advisor guidance and approval. Prerequisite: NURS 573 and consent of Instructor or Advisor. F,S.

NURS 556. PhD Student Intensive. 1 Credit.

This course submerses the student into a community of scholars during an annual intensive experience. The student will participate in a variety of presentations, workshops, and activities which focus on development into the role of a nurse scientist and scholar. Prerequisite: Admission to the Nursing PhD program. Repeatable to 5.00 credits. S/U grading. S.

NURS 557. Foundations of Nursing Science. 3 Credits.

The epistemology and philosophy of nursing as an art and a science are examined. Patterns of knowing as well as clinical, conceptual, and empirical types of nursing knowledge will be discussed. The development of theory as a knowledge claim is analyzed. Prerequisite: Masters Level Nursing Theory Course and Admission to PhD Program. F.

NURS 558. Research Design. 3 Credits.

This course prepares the doctoral student to understand the link between research design and the study purpose. Prerequisite: Admission to PhD program or consent of instructor. F.

NURS 559. Maternal and Child Health in Primary Care. 2 Credits.

This course focuses on advanced practice nursing care of obstetric and pediatric clients within a primary care setting. Health promotion, health protection, and disease prevention are emphasized. Prerequisite: NURS 522, NURS 523 and NURS 585, or consent of the instructor. Prerequisite or Corequisite: It is strongly recommended that students complete or are currently taking Advanced Cardiac Life Support (ACLS), PALS, and Advanced Trauma (ATLS). F,S,SS.

NURS 560. Clinical Anesthesia Practicum I. 6 Credits.

This is the first of five clinical practicum courses that build upon one another and provides students the opportunity to obtain the clinical experiences necessary to develop increasing proficiency in nurse anesthesia practice. The emphasis of this course is the integration of current evidence and advanced nursing knowledge with decision making and case management for diverse, but less complex, patient populations receiving anesthesia care. Students will be provided the continued opportunity to obtain DNP practice experiences to apply concepts related to the AACN DNP Essentials. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S/U grading. S.

NURS 561. Clinical Anesthesia Practicum II. 4 Credits.

This is the second of five clinical practicum courses designed to provide the student with the opportunity to obtain clinical experiences necessary to develop increasing proficiency in nurse anesthesia practice. The emphasis of this course is the integration of current evidence and advanced nursing knowledge with decision making and case management for the diverse and increasingly more complex patient populations receiving anesthesia care. Students will be provided the continued opportunity to obtain DNP practice experiences to apply concepts related to the AACN DNP Essentials. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S/U grading. SS.

NURS 562. Clinical Anesthesia Practicum III. 5 Credits.

This is the third of five clinical practicum courses that provides the student with the opportunity to obtain clinical experiences necessary to develop increasing proficiency in nurse anesthesia practice. The emphasis of this course is the integration of current evidence and advanced nursing knowledge with decision making and case management for the diverse, increasingly complex, patient populations receiving anesthesia care. Students will be provided the continued opportunity to obtain DNP practice experiences to apply concepts related to the AACN DNP Essentials. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S/U grading. F.

NURS 563. Clinical Anesthesia Practicum IV. 6 Credits.

This is the fourth of five clinical practicum courses that provides the student with the opportunity to obtain clinical experiences necessary to develop increasing proficiency in nurse anesthesia practice. The emphasis of this course is the integration of current evidence and advanced nursing knowledge with decision making and case management for diverse patient populations, of all acuity levels, receiving anesthesia care. Emphasis will also be placed on student autonomy, continuing professional role development, and leadership skills. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S/U grading. S.

NURS 564. Psychopharmacology. 2 Credits.

This course provides the advanced practice student with knowledge in the pharmacology of psychopathology across the life span. Emphasis will be placed on prescriptive practice, pharmacological science and therapeutic application of medications for psychiatric symptoms. Prerequisite: Admission to graduate nursing or permission of instructor. F,S,SS.

NURS 565. Rural and Underserved Population Health. 3 Credits.

This course provides an overview of characteristics of rural and underserved population health. Factors that contribute to health, morbidity, and mortality are examined, and the intersection of multiple vulnerabilities and disparities is analyzed. Prerequisite: A graduate level Epidemiology course or permission of instructor. SS.

NURS 566. Curriculum Development. 3 Credits.

This course focuses on the curriculum development process. Societal, professional, and institutional factors as well as current research findings influencing the curriculum development process are analyzed. Consideration of the impact of adult learning principles, workforce issues, legal-ethical concerns, and diverse student populations in regard to the curriculum development process is given. Prerequisite: Admission to the UND School of Graduate Studies. F.

NURS 567. Teaching Methodologies. 3 Credits.

The course explores theory-based teaching strategies designed to develop cognitive abilities, psychomotor skills, and affective qualities in learners from diverse backgrounds. Strategies and methods for the teaching of nursing content in a variety of settings are utilized. The use of technological tools in nursing education is evaluated. Prerequisite: NURS 566. S.

NURS 568. Teaching Practicum. 2 Credits.

Students assume the role of the nurse educator in selected learning settings under the guidance of a preceptor. A clinical/laboratory component is included. Prerequisite: NURS 509, NURS 566, NURS 567 and NURS 569, or consent of instructor. F,S,SS.

NURS 569. Assessment and Evaluation. 3 Credits.

Principles of assessment, measurement, and evaluation are analyzed in this course as they relate to nursing education. The processes of assessing student learning, teaching, and program outcomes are explored. Topics relevant to the evaluation of individual student learning such as test development, evaluation of critical thinking, and clinical evaluation are included. The processes of faculty and program evaluation are examined. Prerequisite: NURS 566 and NURS 567. SS.

NURS 570. Key Concepts in Pathophysiology, Pharmacology and Physical Assessment for Nurse Educators. 4 Credits.

Students will expand their current knowledge base of physiology, pathophysiology, and pharmacological principles across the lifespan using a systems approach. The course examines basic, evidence-based principles of physiological processes, select disease states, and physical assessment skills in each system, including responses to current, prescriptive pharmacotherapies. Additionally, complementary and alternative modalities of treatment and healing will be analyzed. Students will explore and discuss psychosocial and economic issues, cultural practices, and motivational factors affecting clients' adherence to treatment regimens. Prerequisite: Admission to MS Nurse Educator Track, NURS 500, NURS 502, NURS 523, and NURS 526. F,S,SS.

NURS 573. Research Funding. 3 Credits.

This course integrates the scientific and practical aspects of professional writing and grant proposal development to obtain funds for research. Prerequisite: Admission to the graduate nursing program or approval of instructor. Prerequisite or Corequisite: NURS 574 and/or NURS 575; Non-nursing programs: Graduate level quantitative and/or qualitative research methods coursework required. F.

NURS 574. Quantitative Methods in Nursing. 3 Credits.

The purpose of this course is to acquire knowledge and skills necessary to apply quantitative research methods in nursing. The course includes substantial applications of established methodologies and effective research techniques within the quantitative paradigm. Prerequisite: Admission to the doctoral program and completion of a multivariate statistics course. F,S.

NURS 575. Qualitative Nursing Research. 3 Credits.

This course focuses on examination and analysis of qualitative research designs with particular emphasis on approaches relevant to phenomena in nursing. Students will conduct fieldwork to develop some beginning qualitative research skills. Prerequisite or Corequisite: Admission to Doctoral Program or consent of instructor. F.

NURS 576. Clinical Anesthesia Practicum V. 5 Credits.

This is the final capstone clinical practicum course that provides the student with the opportunity to develop full autonomy and proficiency in nurse anesthesia practice. The emphasis of this course is the integration of current evidence and advanced nursing knowledge with advanced clinical judgement, well developed clinical decision making, and total case management for diverse patient populations receiving anesthesia care. Professionalism and leadership within healthcare systems will be emphasized. Prerequisite or Corequisite: Admission to the DNP Program - Nurse Anesthesia Track. S/U grading. SS.

NURS 577. Healthcare Ethics for Rural & Underserved Populations. 3 Credits.

This course is directed toward the development of critical dialogue and leadership strategies for dealing with ethical issues related to nursing, health care and research. Commitment to discussion, understanding and acceptance of the rights of others in dilemmas is emphasized. Reflexive nursing, which brings attention to one's own position and objectivity, is encouraged. The ethical challenges associated with serving rural and underserved populations are included in the discourse. Prerequisite: Admission to the Nursing doctoral Program or consent of the instructor. SS.

NURS 578. Doctoral Seminar. 1 Credit.

Prerequisite: Admission to the Nursing doctoral Program or consent of the instructor.

NURS 580. Research Practicum. 1-6 Credits.

The doctoral research practicum provides a research experience for doctoral nursing students separate from the dissertation to participate in the research process under the guidance of an experienced/funded investigator. Experiences may include grant writing, data collection, analysis, and manuscript writing. Repeatable to 6.00 credits. F,S,SS.

NURS 581. The Nurse Scientist. 3 Credits.

This course prepares the doctoral student to actively engage in doctoral study with knowledge of the discipline of nursing and skills that facilitate success as an emerging nurse scientist. Prerequisite: Admission to PhD program. F.

NURS 583. Individual Therapy. 2 Credits.

This course provides the PMHNP student with knowledge and skill development in the implementation of evidence-based clinical therapies and treatments focused on the individual including cultural variations. Prerequisite: NURS 538 or consent of instructor. F,S,SS.

NURS 584. Group and Family Therapies. 3 Credits.

This course provides the PMHNP student with knowledge and skill development in the implementation of evidence-based psychotherapeutic interventions with families and diverse groups. Opportunities for clinical implementation accompany the theoretical models. Prerequisite: NURS 538 and NURS 583, or consent of the instructor. F,S,SS.

NURS 585. Advanced Health Assessment. 3 Credits.

This course will build upon health assessment skills developed in the professional nurses' basic educational program. An evidenced-based approach will be used to present methodologies for performance on health histories, developmental assessments, and physical/psychosocial assessments of individuals across the lifespan in the context of an advanced nursing role. Emphasis is on acquisition and analysis of relevant data for the development of a comprehensive health assessment. Prerequisite: Admission to grad stud; completion of undergrad course in health assessment techniques or consent of instructor. Prerequisite or Corequisite: Completion or concurrent enrollment in Pathophysiology or equivalent or consent of instructor. F,S,SS.

NURS 586. Rural and Underserved Health Programs, Policies, and Research. 3 Credits.

This course focuses on policies, programs and research related to rural and underserved population health. Prerequisite: NURS 565 or consent of instructor. F.

NURS 587. Population Health. 2 Credits.

This course examines advanced clinical diagnosis related to the patterns of disease and health-related problems in populations for health promotion and disease prevention to address health disparities. Students will apply principles and concepts related to population health and examine the methodologies in their evaluation of health-related data and research of populations. The course will provide the students with a foundation to examine epidemiology related to their population of interest. Prerequisite: Admission to the Post-Baccalaureate DNP Program. S.

NURS 588. Management of Psychopathology I. 2 Credits.

This is the first of a two course sequence that focuses on the management of individuals across the lifespan, groups and families with or affected by psychopathology. Continuity of care across settings and community are emphasized. Corequisite: NURS 564, NURS 584, and admission to the PMHNP program.

NURS 589. Management of Psychopathology II. 2 Credits.

This is the second of a two course sequence that focuses on the management of individuals across the lifespan, groups and families with or affected by psychopathology. Management of co-morbidities is emphasized. Prerequisite or Corequisite: NURS 588. S.

NURS 590. Directed Studies. 1-3 Credits.

Designed to meet the needs of individual and/or small groups of graduate students. The course content will be based on student interests and needs in conjunction with the faculty member's area of specialization. Prerequisite: Consent of instructor. Repeatable.

NURS 591. Readings in Nursing. 1-3 Credits.

Readings in selected nursing/health care topics with written and/or oral reports. Prerequisite: Consent of instructor. Repeatable.

NURS 596. Advanced Clinical Practicum: AGPCNP. 4 Credits.

This clinical practicum course provides the Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) student with the opportunity to obtain advanced practice extended clinical experience in their area of specialization. The course focuses on the integration of theoretical knowledge into clinical practice and gaining increasing competency in the skills integral to the nurse practitioner role. Prerequisite: Admission to AGPCNP NURS 505, NURS 544, NURS 545, NURS 585; successful completion of NURS 541 NURS 596 (AGPCNP I) to proceed to 2nd clinical; successful completion of NURS 541 NURS 596 (AGPCNP II) to proceed to 3rd clinical. Repeatable to 12.00 credits. S/U grading. F,S,SS.

NURS 597. Advanced Clinical Practicum: FNP. 1-4 Credits.

This clinical practicum course provides the Family Nurse Practitioner (FNP) student with the opportunity to obtain advanced practice clinical experience in their area of specialization. The course focuses on the integration of theoretical knowledge into clinical practice and gaining increasing competency in the skills integral to the nurse practitioner role. Prerequisite: Admission to FNP track NURS 505, NURS 544, NURS 559, NURS 585; successful completion of NURS 534 NURS 597 FNP (I) to proceed to 2nd clinical; successful completion of NURS 540 NURS 597 FNP (II) to proceed to 3rd clinical. Repeatable to 12.00 credits. S/U grading. F,S,SS.

NURS 598. Advanced Clinical Practicum: PMHNP. 1-5 Credits.

This clinical practicum course provides the Psychiatric-Mental Health Nurse Practitioner (PMHNP) student with the opportunity to obtain advanced practice extended clinical experience in their area of specialization. The course focuses on the integration of theoretical knowledge into clinical practice and gaining increasing competency in the skills integral to the nurse practitioner role. Prerequisite: Admission to PMHNP NURS 505, NURS 544, NURS 583, NURS 584, NURS 585; completion of NURS 588 NURS 598 PMHNP (I) to proceed to 2nd clinical; completion of NURS 589 NURS 598 PMHNP (II) to proceed to 3rd clinical. Repeatable to 12.00 credits. S/U grading. F,S,SS.

NURS 600. Integrated DNP Core Concepts I. 3 Credits.

This course is an exploration of the core concepts that support the varying roles of the DNP prepared APRN as a practice focused leader and clinical scholar. Development of practice focused leadership skills in the care of rural and vulnerable populations will also be addressed. Prerequisite: Admission to the DNP Program. F.

NURS 601. Integrated DNP Core Concepts II. 3 Credits.

This course builds upon content covered in Integrated DNP Core Concepts I. Students continue to explore core concepts that support the varying roles of the role of the DNP prepared APRN practice focused leader and clinical scholar. In addition, students will critically examine the historical evolution of epidemiology and epidemiological concepts relevant in advanced nursing practice. Prerequisite: Admission to the DNP Program and NURS 600. S.

NURS 602. Evidence Based Research I. 3 Credits.

This course focuses on the development of practice scholarship through the use of evidence to address clinical problems and inform future practice. Students in the class will define practice problems, evaluate evidence based methods to address those problems and design practice focused projects to measure outcomes. Middle range theories will also be explored and used as frameworks for study designs. Statistics and previous Evidence Based Practice course is highly recommended. Prerequisite or Corequisite: Admission to the DNP program. F.

NURS 603. Evidence-Based Research II. 3 Credits.

This course focuses on the continued development of the practice scholar and includes content of research and program evaluation methods and analysis used to address practice problems and inform future evidence based practice. Prerequisite: NURS 602. Corequisite: NURS 609. S.

NURS 604. Health Informatics. 3 Credits.

This course prepares the health care practice professional to use and evaluate emerging health care technology and data systems to support evidence-based practice. Prerequisite: Admission to DNP Program or consent of instructor. SS.

NURS 605. Health Policy. 2 Credits.

This course will prepare the health care professional to understand and apply knowledge of health policy to function as an advocate for populations and individuals. Prerequisite: Admission to the DNP Program or consent of instructor. SS.

NURS 606. DNP Systems Focused Practice I. 2 Credits.

This course is designed to provide the DNP student with opportunities to apply the concepts in the AACN DNP Essentials in the practice environment. Prerequisite: NURS 603. SS.

NURS 607. DNP Systems Focused Practice II. 3 Credits.

This course continues to provide the DNP student with opportunities to apply the concepts in the AACN DNP Essentials in the practice environment. Prerequisite: NURS 603 and NURS 606. F.

NURS 608. Healthcare Economics, Finance and Leadership. 3 Credits.

This course focuses on healthcare economics, finance and practice leadership skills related to the role of the DNP prepared nurse within the complex health care system. Prerequisite or Corequisite: Admission to the DNP program or consent of instructor. F,S,SS.

NURS 609. DNP Project Teams. 1-6 Credits.

The student will design, implement and evaluate the DNP project as well as present findings in the applicable practice setting under the guidance of DNP faculty. Prerequisite: NURS 601 and NURS 603. Repeatable to 6.00 credits. F,S,SS.

NURS 610. DNP Capstone. 2 Credits.

The capstone course provides the DNP students with an opportunity to develop skills in reporting and disseminating practice focused research findings. Writing for publication of practice focused research is emphasized. Prerequisite or Corequisite: NURS 609. S,SS.

NURS 611. Rural Healthcare Forum. 1 Credit.

This course focuses on interprofessional healthcare delivery to rural and underserved populations. Prerequisite or Corequisite: Admission to DNP program or consent of instructor. SS.

NURS 612. Integrated Leadership DNP Core Concepts. 3 Credits.

This course provides an overview of the DNP advanced nursing practice roles. The AACN DNP Essentials is the framework used to explore practice leadership, clinical scholarship, and policy. Prerequisite: Admission to the DNP program. F,S,SS.

NURS 613. DNP Organizational Systems Focused Practice. 3 Credits.

This course is designed to provide the DNP student with opportunities to apply the concepts in the AACN DNP Essentials in complex organizational systems and the practice environment. Prerequisite or Corequisite: NURS 612. F,S,SS.

NURS 614. Culture of Safety and Ethics. 3 Credits.

Leadership code of conduct is essential for professional, ethical practice ensuring a culture of safety and support. The course will explore leadership's influence within an organization's culture. Communication strategies of for corrective action are applied. Prerequisite or Corequisite: NURS 613. F,S,SS.

NURS 615. Library Resources and Literature Searches. 2 Credits.

This course provides doctoral students with advanced research skills and strategies for conducting a literature review. Critical thinking skills, synthesis of information, and application of the literature are emphasized to support the feasibility and relevance of a research study. This includes provision of skills with library resources. Prerequisite: Admission to the Doctor of Nursing PhD Program. F.

NURS 616. Manuscript Writing for Nursing. 2 Credits.

This course leads the student through the process of preparing a manuscript for submission to a peer-reviewed nursing journal using a step-by-step approach. Guidelines are provided for preparing reports of evidence syntheses and research reports. The peer-review process used by journals and ethical guidelines related to authorship relevant to writing for publication are examined in the course. Prerequisite: Admission to the PhD nursing program, NURS 581, and NURS 615. S.

NURS 617. Responsible Conduct for Research. 1 Credit.

The Scholars and Faculty will meet during the fall semester for a discussion of the Research Ethics: Responsible Conduct of Research course content. This course will be administered by the MARC/U-RISE and PhD Faculty under the supervision of the University of North Dakota University Office of the Vice President for Research. The Vice President of Research is responsible for the administration of grants and contracts, management of intellectual property, oversight of human subject and laboratory animal research, and implementation of the university's policies on research and scholarship. Prerequisite: Admission to the Doctor of Nursing PhD Program. F.

NURS 618. Diagnostics and Therapeutics for Adult-Gerontology Acute Care. 3 Credits.

This course is an introduction to the diagnostic and therapeutic processes used in the acute and critical care settings for acutely ill adult-gerontology patients. F.

NURS 619. Adult-Gerontology Acute Care I. 3 Credits.

This is the first of a two-course sequence and is the foundation of didactic learning for care of adult-gerontology patients in acute and critical care settings. Prerequisite: NURS 618. Corequisite: NURS 620. S.

NURS 620. Adult-Gerontology Acute Care Practicum I. 5 Credits.

First of a three-course clinical experience focusing on management of acutely ill adult-gerontology patients in the acute care setting. Prerequisite: NURS 618. Corequisite: NURS 619. S.

NURS 621. Adult-Gerontology Acute Care II. 3 Credits.

Second of the two-course didactic portion of care of the acutely ill adult-gerontology patient in the acute and critical care setting. Prerequisite: NURS 618, NURS 619, and NURS 620. Corequisite: NURS 622. SS.

NURS 622. Adult-Gerontology Acute Care Practicum II. 5 Credits.

Second of a three-course sequence focusing on clinical management of acutely ill adult-gerontology patients in acute and critical care settings. Prerequisite: NURS 618, NURS 619, and NURS 620. Corequisite: NURS 621. SS.

NURS 623. Adult-Gerontology Acute Care Practicum III. 7 Credits.

This course is the capstone of the program and includes 250 clinical hours. This course offers 2 credits for didactic work and 5 credits for clinical work. Prerequisite: NURS 618, NURS 619, NURS 620, NURS 621, and NURS 622. F.

NURS 996. Continuing Enrollment. 1-12 Credits.

Repeatable. S/U grading.

NURS 997. Independent Study. 2 Credits.

.

NURS 998. Thesis. 1-4 Credits.

Repeatable to 4.00 credits.

NURS 999. Dissertation. 1-15 Credits.

Repeatable to 15.00 credits.