SCHOOL OF NURSING COURSES

NUAN Courses

NUAN 449. Chemical and Physical Properties of Anesthesia. 1 Unit.
Introduction and elaboration of basic chemical and physical principles as they relate to clinical nurse anesthesia practice. An in-depth study of organic and biochemical principles, structure/activity, relationships and their significance in pharmacology. Emphasis will be on the integration and practical application of these principles to clinical nurse anesthesia practice.

NUAN 450. Pharmacological Strategies in Anesthesia Practice. 1 Unit.
Application of pharmacokinetic and pharmacodynamic principles as they relate to specific anesthetic and adjunct drugs used in anesthesia practice. Integration of this information into clinical area regarding anesthetic uses, dosages, and side effects of these classes of drugs is emphasized. Coreq: NUAN 449.

NUAN 451. Physiological Variables and Responses I: Respiratory System. 1 Unit.
A detailed study of the anatomic structures and related physiochemical mechanisms governing respiratory function in health and disease. Assess the functional integrity of this system utilizing all pertinent objective and subjective data. Consider the impact of anesthetic agents and techniques on this system and how one can plan an anesthetic to facilitate health-seeking behaviors as a patient attempts to attain, maintain or regain optimal health. The effects of anesthesia, implications and for all types of surgery, and the impact on the respiratory system will be discussed. Prereq: NUAN 459 and NURS 453.

NUAN 452. Physiological Variables and Responses: The Cardiovascular System. 1 Unit.
A detailed study of the anatomic structures and related physiochemical mechanisms governing cardiovascular function in health and disease. Assess the functional integrity of this system utilizing all pertinent objective and subjective data. Consider the impact of anesthetic agents and techniques on this system and how one can plan an anesthetic to facilitate health-seeking behaviors as a patient attempts to attain, maintain or regain optimal health. Implications for all types of surgery in view of effect of anesthesia on cardiovascular system, however, special attention on surgery involving this specific system. Coreq: NUAN 459 and NURS 453.

NUAN 453. Physiological Variables and Responses III: Peds, OB, Endo & Geriatrics. 1 - 5 Units.
Study of health-seeking behaviors and intervening variables with special consideration of the anatomy, physiology, and pathophysiology of the pediatric and obstetric, endocrine and geriatric patient. Focus will be on the integration of this information into the nurse anesthesia care to support the health-seeking behaviors of these patients. Prereq: NUAN 451 and NUAN 452.

NUAN 454. Physiological Variables and Responses IV: Renal and Neurologic Systems. 3 Units.
Systematic investigation of the physiologic factors related to health-seeking behaviors with special emphasis on pathophysiology of the renal and neurologic systems. Focus will be on the integration of this knowledge into the planning, implementation, and evaluation of patients requiring nurse anesthesia intervention. Prereq: NUAN 453.

NUAN 455. Anesthesia Nursing I. 1 Unit.
An introduction to the art and science of nurse anesthesia including basic anesthetic principles and beginning clinical practicum to introduce the student to anesthetic equipment and operating room environment. This course is designed to give the student practical information regarding administration of safe anesthesia.

NUAN 456. Anesthesia Nursing I. 1 Unit.
Progressive, guided instruction on the clinical and ethical management of clients undergoing all forms of anesthesia. This course is designed to prepare the nurse in the administration of a safe, routine anesthetic with a moderate amount of instructor intervention. Prereq: NUAN 458 and NUAN 459.

NUAN 457. Anesthesia Nursing III. 1 Unit.
Graduated, guided instruction in clinical management of clients receiving various types of anesthesia. Focus is on the preparation and planning for anesthesia utilizing Schlotfeldt paradigm. Includes actual administration of anesthesia for clients exhibiting more complicated pathophysiology. More advanced technical instruction and experience. Correlation of didactic and clinical materials, as well as continuous evaluation of student progress are integral to this course. Prereq: NUAN 456.

NUAN 458. Principles of Anesthesia I. 2 Units.
An introduction to the art and science of nurse anesthesia, including basic anesthetic principles, chemical and physical properties of anesthesia, and basic Anesthetic pharmacology. This course is designed to introduce students to basic anesthesia safety, Anesthesia practice, and the operating room environment. Coreq: NURS 459.

NUAN 459. Principles of Anesthesia II. 2 Units.
In-depth study of principles of regional anesthesia and pain management. Emphasis is placed on relevant anatomy and physiology, preoperative assessment and appropriate patient selection, appropriate use of equipment, pharmacology of commonly used medications, techniques for administration, and physiologic alterations/complications. Prereq: NUAN 458.

NUAN 460. Advanced Principles of Anesthesia 1. 3 Units.
An in-depth exploration of the anatomy, physiology, and pathophysiology of the cardiovascular, respiratory, and hematologic systems in the context of anesthesia care. Implications of cardiovascular, respiratory, and hematologic disease for all types of surgery are explored, with emphasis on anesthetic management of surgical procedures related to these systems. Prereq: NUAN 459.

NUAN 461. Advanced Principles of Anesthesia 2. 2 Units.
An in-depth exploration of the anatomy, physiology, and pathophysiology of the renal, endocrine, and neurologic systems in the context of anesthesia care. Implications of renal, endocrine, and neurologic disease for all types of surgery are explored, with emphasis on anesthetic management of surgical procedures related to these systems. Prereq: NUAN 460.

NUAN 462. Advanced Principles of Anesthesia 3. 3 Units.
An in-depth exploration of the anatomy, physiology, and pathophysiology of pediatric, obstetric, and geriatric patients within the context of anesthesia care. Implications of physiologic changes across the lifespan are explored, with emphasis on the anesthetic management of anesthetic and surgical procedures related to these patient populations. Prereq: NUAN 461.
NUAN 551A. Nurse Anesthesia: Advanced Practice IA. 2 Units.
Individual, in-depth study of advanced clinical nurse anesthesia in such specialty areas as neurosurgical, cardiovascular, obstetric and pediatric anesthesia. The nurse learns to handle more difficult, specialized patients who are at a higher risk. Emphasis is on more complex monitoring techniques, use of pharmacological agents and handling higher stress situations. Students develop and utilize practical clinical applications of nurse anesthesia theory. Students are individually assigned to specialty areas and are formally evaluated at the end of each rotation. Prereq: NUAN 462.

NUAN 551B. Nurse Anesthesia: Advanced Practice IB. 1 Unit.
Individual, in-depth study of advanced clinical nurse anesthesia in such specialty areas as neurosurgical, cardiovascular, obstetric and pediatric anesthesia. The nurse learns to handle more difficult, specialized patients who are at a higher risk. Emphasis is on more complex monitoring techniques, use of pharmacological agents and handling higher stress situations. Students develop and utilize practical clinical applications of nurse anesthesia theory. Students are individually assigned to specialty areas and are formally evaluated at the end of each rotation. Case presentations and group discussion designed to assist the student in conceptualizing, analyzing and evaluating various nurse anesthesia strategies as they relate to the client’s health seeking behaviors and goals are also emphasized. Prereq: NUAN 551A.

NUAN 551C. Nurse Anesthesia: Advanced Practice I. 1 - 5 Units.
(See NUAN 551A.) Prereq: NUAN 551B.

NUAN 552. Nurse Anesthesia: Advanced Practice II. 1 - 5 Units.
The continuation of advanced, independent clinical nurse anesthesia administration. Emphasis is on management of higher risk patients for more difficult procedures, performing total anesthetic care with minimum of anesthesiologist supervision, and readiness for transition from student to graduate status. Prereq: NUAN 551A and NUAN 551B and NUAN 551C.

NUED Courses

NUED 402. Common and Acute Health Problems of Children for Nursing Education. 3 Units.
This course describes the common and acute health problems occurring in infancy through adolescence using a bio/psycho/social/cultural approach. Pathophysiology, assessment and teaching strategies specific to acute and common problems in children will be emphasized. Education strategies used to enhance, maintain and restore health will be discussed. Prereq: NUNP 410.

NUED 403. Management of Complex Chronic Problems in Children for Nursing Education. 3 Units.
This course focuses on the primary and rehabilitative health care concepts specific to the management of complex, multi-dimensional health problems experienced by infants, children and adolescents within the context of their family and community environments. Emphasis will be placed on the educational approaches to promote interprofessional communication. Prereq: NUED 402.

NUED 409. Family Health Nursing: Health of Adults and Older Adults. 3 Units.
This course introduces the student to the practice of primary health care of adults and older adults. The course includes principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Emphasis is placed on the biological, psychological, social and cultural aspects of care. Pathophysiology, assessment and diagnostic techniques specific to the acute and common problems are stressed. Nursing strategies related to health problems used to enhance, maintain, and restore health are emphasized. Health seeking behaviors and the impact of the family on the adult and older adult are stressed. Prereq: NURS 459. Coreq: NURS 430.

NUED 410. Advanced Oncology Nursing. 2 Units.
The emphasis of this course is on the genetic basis and pathophysiology of cancer, and common treatment modalities. Advanced practice nursing responsibilities in all phases of cancer care (prevention, detection, diagnosis, treatment, survivorship, and end of life) will be discussed. Traditional, experimental, and complementary treatment modalities will be explored in relation to mechanisms of action, efficacy, and short and long-term side effects. Strategies for addressing health promotion and problem management in promoting quality of life for patients with cancer will be critically evaluated Prereq: NUED 419.

NUED 411. Common & Acute Health Problems of the Adult and Older Adult. 3 Units.
This course introduces the common and acute health problems occurring across the adult life span. A problem-oriented approach is used with emphasis on the biological, psychological, social, and cultural aspects of care. Pathophysiology, pharmacology, assessment, and diagnostic strategies specific to the acute and common problems of adults and older adults will be included. Nursing strategies used to enhance, maintain, and restore health will be emphasized. Prereq: NURS 459 and NUNP 410. Coreq: NURS 430.

NUED 412. Advanced Management in Adult and Older Adult Primary Care. 3 Units.
This course focuses on the health care concepts specific to the management of complex multidimensional health problems experienced by adults, older adults within the context of their family and community environments. Pathophysiology, assessment, and diagnostic strategies specific to complex health problems are emphasized. The selection of management strategies used to enhance outcomes will be stressed. Prereq: NUED 449.

NUED 413. Foundations in Acute Care Nursing of Adults and Older Adults for Nursing Education. 3 Units.
The course focuses on establishing elements of acute care and critical care nursing practice assessment and diagnostic reasoning across the continuum of healthcare services. Content is designed to develop application of specialized physiologic and psychological knowledge to meet needs of adults and older adults with complex acute and/or chronic health conditions as a basis for teaching acute and critical care nursing. Advanced pathophysiology is strongly recommended. Prereq: NURS 459.

NUED 414. Acute Health Problems of Adults and Older Adults. 4 Units.
Emphasis in this second of sequenced Adult-Gerontology Acute Care Nursing education courses is on the pathophysiology, assessment, and diagnostic approaches to adults and older adults with complex acute and chronic health disorders that manifest with physiologic instability. The content focuses on further development of diagnostic reasoning, clinical judgment, caring practices, and collaboration in health care systems that deliver acute and critical care nursing.
NUED 444. Management of Acutely Ill Adults and Older Adults for Nursing Education. 2 Units.
This course focuses on concepts specific to complex, multi-dimensional health problems of acute and critically ill adults and older adults. Content focuses on management of patients with complex health problems and life-threatening conditions across the entire adult spectrum. Prereq: NUED 443.

NUED 449. Primary Care of the Older Adult. 3 Units.
This course will focus on the assessment of the older adult's nutritional needs, functional status, mental status (cognitive and affective), social support systems, and caregiver stress. These factors are analyzed in various environments, such as acute care, ambulatory care, home care, day care, long-term care, and rehabilitation. Epidemiological and health behavior models are used to assess health risks, assist with problem identification, primary, secondary, and tertiary prevention strategies. Cultural, ethnic, and developmental issues are addressed. Concepts, assessment strategies, interventions and evaluation approaches specific for older adults are identified. Prereq: NUED 432.

NUED 454. Well Woman Health Care. 2 Units.
The focus of this course is the application of theory, practice and research for promotion of health and wellness in the assessment and management of common gynecologic and family planning issues encountered by a diverse population of women in ambulatory settings. Emphasis is on promotion of health behaviors, identification and management of deviations from normal, anticipation of problems and the importance of consultations, referrals and collaborative management. Culturally appropriate interventions are integrated throughout. Prereq: NUED 459.

NUED 455. The Childbearing Family. 2 Units.
The focus of this course is the application of theory, practice and research in promotion of health and wellness of childbearing women using a family-centered approach. Emphasis is on normal aspects of pregnancy, promotion of health behaviors, identification and management of deviations from normal, anticipation of problems and the importance of consultations, referrals and collaborative management. Prereq: NUED 454. Coreq: NURS 430.

NUED 457. Labor and Birth. 3 Units.
The focus of this course will be the application of theory and research to evaluate how evidence-based care promotes the health and well-being of childbearing women, newborns and their families during intrapartum and the immediate postpartum period. Emphasis will be placed on the health-seeking behaviors of the mother and her family using a holistic approach that respects cultural, ethnic, and racial diversity in the provision and evaluation of care. The student will learn to identify normal processes, anticipate and identify complications, and to demonstrate the importance of consultations, referrals, and collaborative management. Prereq: NUED 455.

NUED 509. Curriculum and Instruction. 3 Units.
The purpose of this course is to explore the theoretical underpinnings of education and to examine innovative approaches to critical thinking. Students are provided the opportunity to analyze philosophies and principles of education along with teaching and learning styles. The focus of this course is on curriculum planning and development congruent with the philosophy and objectives of a nursing program. Curriculum development includes determination of program and course objectives, along with selection and organization of appropriate learning experiences to meet these objectives. Techniques for instruction in the classroom, laboratory, and clinical settings are explored.

NUED 559. Primary Care in Women's Health. 2 Units.
In this course, students gain knowledge needed to assess and manage primary health care problems commonly encountered by diverse populations of women in ambulatory settings. This course prepares the student to use the problem solving approach to assist individuals with common acute and chronic health problems. Culturally appropriate health promotion and disease prevention are integrated throughout. Students are introduced to the dynamics of the managed care environment. Prereq: NUED 455.

NUED 609. Theoretical Foundations of Educational Testing and Evaluation. 2 Units.
In this course, an overview of educational measurement and evaluation is provided. Methods of evaluating teaching effectiveness, student learning, and student performance are explored. Prereq: NUED 509.

NUMN Courses
NUMN 400. Guided Study. 1 - 6 Units.
Selected topics in basic nursing. May include clinical experiences.

NUMN 401. Introduction to the Discipline and Practice of Nursing. 6.5 Units.
This course is an introduction to the discipline and practice of nursing. Factors influencing health and illness will be explored. Selected nursing strategies and interventions designed to support the maximum health potential of the adult client will be incorporated into lab sessions and practiced in acute care and other settings as arranged. Historical, societal, and legal influences on nursing and the role and functions of the professional nurse will be examined. Coreq: NUMN 402 and NUMN 410.

NUMN 402. Pharmacology for the Advanced Generalist Nurse. 3 Units.
This course is an introduction to the principles of pharmacology and pharmacotherapeutics, including characteristics of the major drug classifications with emphasis on drug action and adverse effects. Students will apply knowledge of pharmacology to implications for safe, patient-centered nursing care. Coreq: NUMN 401 and NUMN 410.

NUMN 403. Introduction to Nursing Informatics. 1 Unit.
This course will introduce students to the concepts of health informatics and the role nurses play in the management of information within the health care setting. Foundational knowledge that supports clinical practice, education, research, and administration will be studied as well as core models and theories of nursing informatics. Students will develop an awareness of the importance of nursing involvement in the design, implementation, and use of information systems and other technologies. Coreq: NUMN 401.

NUMN 405. Pathophysiology for the Advanced Generalist Nurse. 3 Units.
This course in clinical pathophysiology examines the biological basis and pathophysiological outcomes of selected disease processes that alter human physiologic and cognitive function. Students will relate the pathogenesis of selected disease conditions and pathologic states to their risk factors, symptomatology, and prevention. Prereq or Coreq: NUMN 401.

NUMN 406. Nursing Care of Older Adults in Health and Illness. 2.5 Units.
This course will explore the concept of aging in health and illness with an emphasis on the older adult as an individual with the capacity to grow and develop. Theories of aging, geriatric syndromes, and the multiple interacting determinants influencing the health of older adults will be examined. Students will design and implement theory and evidence-based, safe, patient-centered nursing interventions tailored to the unique needs of older adults. Prereq or Coreq: NUMN 401 and NUMN 410.
NUMN 407. Acute Care Nursing of the Adult. 8.5 Units.
The focus of this course is the integration of the nursing process in clinical practice. Human responses to significant health events and alterations are analyzed. Application of relevant physiology, psychosocial dimensions, and pharmacology are included. Particular emphasis is placed on nursing strategies, interventions, and the evaluation of their effectiveness in the care of the acutely ill adult. Prereq: NUMN 401 and NUMN 410.

NUMN 409. Advanced Generalist: Health Policy, Advocacy, and Economics. 1.5 Unit.
This course is designed to address professional role development of the advanced generalist nurse. In this course, students will examine economics, health policy, and advocacy and the role of the advanced generalist nurse as political activist and policy advocate within the U.S. health care delivery systems of care. Policies that influence health care economics, safety, and quality will be investigated. Prereq: NUMN 414.

NUMN 410. Health Assessment for the Advanced Generalist Nurse. 2.5 Units.
This course uses a comprehensive, system-by-system, patient-centered approach to provide students with assessment and interviewing skills required for practice as an advanced generalist nurse. Students will apply critical thinking to make decisions regarding utilization of assessment findings including communication of the findings to the patient. Coreq: NUMN 401.

NUMN 411. Introduction to Public Health Nursing. 3 Units.
This course introduces the student to the principles and practice of public health nursing. An ecological perspective of the determinants of health will be used to examine the influence of society and communities on the health of individuals and groups. Culturally-relevant, asset-based strategies will be used to plan and implement public health nursing interventions. Coreq: NUMN 401.

NUMN 413. Issues and Ethics in Health Care. 2 Units.
This course introduces students to the principles underlying ethical issues and methods of rational decision making. Fundamental theories will be reviewed and applied through case analyses to address ethical dilemmas common to modern health care.

NUMN 414. Concepts in Nursing Management. 2.5 Units.
This course focuses on the study of basic concepts related to management in nursing and working with multidisciplinary teams in the provision and coordination of care. Concepts of nursing management including, planning, organizing, staffing, delegating, and budgeting within healthcare settings will be discussed. Coreq: NUMN 407.

NUMN 415. Parents and Neonates in Health and Illness. 4.25 Units.
This course introduces biological, psychosocial, and developmental concepts applicable to the nursing care of women, newborns, and families during the childbearing cycle. Emphasis is placed on assessment and identification of health needs as parents and neonates respond to the changes inherent in the childbearing cycle. Strategies related to nursing care of parents and neonates are discussed. The clinical experience focuses on the direct application of these concepts and strategies in the care of patients in various perinatal settings. Prereq: NUMN 407. Coreq: NUMN 414.

NUMN 416. Children and Families in Health and Illness. 4.25 Units.
This course is the study of children from infancy through adolescence and their health status from a developmental perspective. Emphasis is on healthy children as well as those with common acute and chronic illness within the context of their family environment. Nursing strategies focus on interventions to promote, restore, and maintain health and foster growth and development. These strategies are based on understanding advanced concepts of children's and families' responses in health and illness. Prereq: NUMN 407. Coreq: NUMN 414.

NUMN 417. Psychiatric Mental Health Nursing. 4 Units.
This course is designed to address psychiatric nursing concepts related to mental illness and addiction. The focus is on achieving optimal health for clients with acute and chronic psychiatric disorders using interpersonal techniques and applying the nursing process. Nursing strategies that are appropriate for assessment and intervention with individuals, families, and groups to facilitate optimal mental health and recovery will be discussed and evaluated. Prereq: NUMN 407.

NUMN 418. Intro to Critical Care Nursing. 7 Units.
The focus of this course is on integrating the knowledge and skills required to safely and effectively provide quality patient care in the critical care setting. Emphasis is placed on implementation of the nursing process and standards of practice required to care for critically ill patients and their families. The didactic component includes topics on current practice and trends in critical care nursing. The clinical component provides students with opportunities to implement the roles and functions of the advanced generalist nurse. Prereq or Coreq: NURS 502.

NUMN 419. Advanced Generalist Nurse Leadership. 2.5 Units.
This course is part of the concentration in leadership for safe quality healthcare. It provides students with clinical practice opportunities to synthesize knowledge, skills, and attitudes, and implement the roles of the advanced generalist nurse as leader for evidence-based quality healthcare for populations across the continuum of care. Coreq: NURS 451, NURS 502, and NUMN 409.

NUMN 420. Clinical Immersion. 1 Unit.
This clinical immersion will build on previous MN clinical and didactic coursework and provide opportunities to integrate and apply knowledge and skills in a selected patient population. The course will enhance preparation for entry into professional nursing practice. Coreq: NUMN 418.

NUND Courses

NUND 401. Introduction to the Discipline and Practice of Nursing. 7.5 Units.
This course is an introduction to the discipline and practice of nursing. Factors influencing health and illness will be explored. Selected nursing strategies and interventions designed to support the maximum health potential of the adult client will be incorporated into lab sessions and practiced in a variety of settings. Small group seminars will be used to examine historical, societal, and legal influences on nursing and the role of functions of the professional nurse. Coreq: NUND 402 and NUND 410.

NUND 402. Introduction to Pharmacology. 3 Units.
This course introduces basic principles of pharmacology and pharmacotherapeutics. A survey of characteristics and uses of major drug groups with an emphasis on nursing implications is presented. Coreq: NUND 401 and NUND 410.
NUND 403A. Introduction to Nursing Informatics. 1 Unit.
This course will introduce students to the concept of health informatics and the role nurses play in the management of information in supporting all areas of nursing including clinical practice, education, research, and administration. Using case studies, lecture and class discussion. Students will develop an awareness of the importance of nursing involvement in the design, implementation, and use of information systems and other technologies. Coreq: NUND 401.

NUND 403B. Nursing and Health Informatics. 1 Unit.
This is the second of a two part course sequence in Nursing Informatics. The focus of this course is the transdisciplinary nature of informatics in health care and the use of advanced information technologies (IT) to support decision-making, promote safety, and ensure quality in patient care. Current issues in health care policy and legislation relating to health information technology will be discussed. Prereq: NUND 403A.

NUND 404A. Inquiry A for the Graduate Entry DNP. 2 Units.
This course provides an introduction to conceptual and theoretical thinking. Students will examine knowledge development in nursing, conceptual structures, and the use of theory in nursing practice and research. Coreq: NUND 401.

NUND 404B. Inquiry B for the Graduate Entry DNP. 2 Units.
This course is a continuation of NUND 404A GE Inquiry A. It completes the introduction to conceptual and theoretical thinking and begins examination of the research process in nursing. The student will examine scientific inquiry and scientific investigation, including the research process. Prereq: NUND 404A.

NUND 404C. Inquiry C for the Graduate Entry DNP. 2 Units.
This course is a continuation of NUND 404B GE DNP Inquiry B. It expands the examination of scientific investigation in nursing and includes data management, analysis, and interpretation; critique of existing research; and implications for nursing practice. Coreq: NUND 404B.

NUND 408. Introduction to Concepts of Genetics in Nursing. 1 Unit.
Introduction to the theories and concepts relevant to human genetics and genomics and their applications in health care. Coreq: NUND 407.

NUND 409A. Professional Role Development: Leadership. 1 Unit.
This seminar is the second in a series designed to address professional role development. The seminar focuses specifically on leadership development in nursing. Prereq: NUND 407.

NUND 410. Health Assessment. 2.5 Units.
Comprehensive introduction to the assessment skills required for a successful nursing practice. Basic skills, such as vital signs, are taught along with a system by system approach to physical examination. Taking a health and psychosocial history is integrated into the course. The course is taught concurrently with anatomy and physiology, concepts of nursing practice, and strategies and interventions for alterations in functioning. Coreq: NUND 401 and NUND 402.

NUND 411A. Public Health Nursing A. 2.5 Units.
This is the first of a two course sequence in public health nursing - health promotion-disease prevention for groups, populations, and communities. This course will focus on enhancing the health and health-seeking behaviors of groups and populations. Adult teaching-learning theories and processes will be explored. Coreq: NUND 407.

NUND 411B. Public Health Nursing B. 2 Units.
This is the second of a two course sequence in public health nursing - health promotion-disease prevention for groups, populations, and communities. This course will focus on enhancing the health and health-seeking behaviors of a selected community Coreq: NUND 411A.

NUND 450. Applied Statistics. 3 Units.
This course provides an advanced overview of the assumptions and applications necessary to analyze and interpret questions and research related to clinical practice. Emphasis will be on statistical interpretation of research. During the course, data management, statistical analysis, and data interpretation, as well as univariate, bivariate, and multivariate statistics such as ANOVA and ANCOVA will be examined. The data analysis process will be examined and deconstructed throughout the course. Offered as NUND 450 and NURS 532. Prereq: STAT 201 or equivalent within past 5 years.

NUND 500. D.N.P. Thesis. 1 - 6 Units.
Systematic investigation of a clinically based research problem selected by the student for independent study. This includes proposal refinement and acceptance, data analysis and thesis completion under thesis committee supervision. Prereq: NURS 521.

NUND 504. Theories for Nursing Practice and Scholarship. 3 Units.
This initial course in the Doctor of Nursing Practice program examines the nature of theory, theory development in nursing, and significant conceptualizations of nursing. Application of mid-range theory to practice, practice change, and scholarship is explored. Recommended preparation: Post Masters graduate standing or permission of faculty.

NUND 505. D.N.P. Project. 1 - 6 Units.
Systematic completion of a project based on existing educational or clinical research. The project could include: (1) program needs assessment, (2) development and testing of an assessment instrument/protocol for clients, (3) implementation and evaluation of a new program; or evaluation of a major existing program. The evaluation may include financial, clinical, or educational components as appropriate to the project. The project will be developed under the supervision of the student’s N.D. project committee. Prereq: NURS 521.

NUND 506. Leadership in Organizations and Systems. 3 Units.
This course introduces the student to organizational design and leadership. The focus is developing skills to effectively lead individuals and teams toward maximizing organizational effectiveness. Elements of this course will include: organization culture, systems, communication, innovation and change.

NUND 507. Management in Advanced Nursing Practice. 3 Units.
This course is focused on management entrepreneurial concepts and issues related to advanced nursing practice. Seminars will focus on integrating legal, fiscal, quality improvement, and other intervening variables that affect environments of care. Prereq: NUND 506.

NUND 508. Health Care Policy and Planning. 3 Units.
The primary focus of this course is to explore the leadership role of nurses in health policy development and implementation as well as the role of research in health care policy formation and planning. Special emphasis is placed on selected national and international health policy issues that form the socio-political and economic context of nursing care and practice. Ethical dimensions of public policy formulations and implementation are highlighted. Offered as NUND 508 and NURS 609.
NUND 509. Curriculum and Instruction. 3 Units.
The purpose of this course is to explore the theoretical underpinnings of education and to examine innovative approaches to critical thinking. Students are provided the opportunity to analyze philosophies and principles of education along with teaching and learning styles. The focus of this course is on curriculum planning and development congruent with the philosophy and objectives of a nursing program. Curriculum development includes determination of program and course objectives, along with selection and organization of appropriate learning experiences to meet these objectives. Effective techniques for instruction in the classroom, laboratory, and clinical settings are explored.

NUND 510. Application of Health Information Technology and Systems. 1 Unit.
In this course, an overview of health information technology (HIT) is provided with focus on use of HIT in health care settings and among consumers. Course content includes use and evaluation of HIT by health care providers and patients.

NUND 530. Research Principles and Methods. 3 Units.
This course provides an overview of the components of the research process. Application of these principles to traditional as well as non-traditional research problems will be explored. Prereq: NUND 504.

NUND 531. Approaches to Practice Focused Research. 3 Units.
This course considers a variety of methods used for practice improvement and research. The applicability of these methods, such as action research, program evaluation and quality improvement, to the change process and to continuous improvement within various venues will be explored. The iterative, participative, and emergent nature of knowledge and practice innovations will be discussed. Prereq: NUND 530.

NUND 540. Practice Focused Inquiry I. 3 Units.
This course introduces the student to a variety of approaches that can be used for practice-focused inquiry. Applications of beginning elements of the scholarly process to practice-focused inquiry are reviewed. Elements include development of a problem statement and literature review. Prereq: NUND 504 and NUND 450.

NUND 541. Practice-Focused Inquiry II. 3 Units.
This course builds on Practice-Focused Inquiry I. The content expands student understanding of practice-focused methodology, including aims, a conceptual or theoretical framework, setting, sample, sources of data, measures and instruments. The student applies appropriate methodology to the development of a plan for their scholarly practice-focused project. Ethical issues and mechanisms for dissemination of the project results are included. Prereq: NUND 540.

NUND 607. Advanced Leadership and Management in Healthcare. 2 Units.
Leadership strategies and competencies for adapting to strategic advances in knowledge, technology, and organizational processes are explored. Emphasis is placed on developing strategic capacity within the dynamics of the competitive healthcare environment. Prereq: NUND 507.

NUND 609. Theoretical Foundations of Educational Testing and Evaluation. 2 Units.
In this course, an overview of educational measurement and evaluation is provided. Methods of evaluating teaching effectiveness, student learning, and student performance are explored. Prereq or Coreq: NUND 509.

NUND 610. Translating Evidence into Nursing Practice. 3 Units.
This course focuses on methods for developing best practice protocols, and translating them into practice. Prereq: NUND 504.

NUND 611. Practicum. 1 - 2 Units.
Under the guidance of the faculty advisor and designated mentor(s), the student will develop, implement and evaluate a specific clinical practice experience that strengthens and expands current expertise. This practicum will synthesize previous coursework. Prereq or Coreq: NUND 504.

NUND 615. Teaching Practicum. 1 - 6 Units.
In this preceptored teaching practicum, the student may engage in classroom, laboratory, and clinical teaching assignments in nursing. The student will be expected to use current educational theory and nursing knowledge in completing the practicum experience (minimum 60 hours). Offered as NUND 615 and NURS 621. Prereq: NUND 509 and NUND 609.

NUND 619. Proposal Development. 1 - 2 Units.
Under guidance of the student’s chair, the student will develop a proposal addressing a practice-based research problem for acceptance by the proposal committee and IRB. Prereq: NUND 610.

NUND 620. Scholarly Project. 1 - 3 Units.
Under the guidance of their advisor and committee, the student will complete a systematic investigation of a previously identified problem. The experience will culminate with a written report of the findings. Prereq: NUND 619.

NUNP Courses

NUNP 401. Development and Health Promotion in Children and Adolescents. 3 Units.
This course will examine the concepts of development and health promotion in children and adolescents. Concepts and theories from nursing and other related disciplines will be explored. Clinical application of theories and advanced nursing strategies to optimize the health of children, adolescents, and their families will be emphasized in the professional role development of students. Prereq: Enrolled in MSN program.

NUNP 402. Common and Acute Health Problems of Children. 6 Units.
This course introduces the common and acute health problems occurring in infancy through adolescence using a bio/psycho/social/cultural approach. Pathophysiology, assessment and diagnostic strategies specific to acute and common problems in children will be emphasized. Nursing strategies used to enhance, maintain and restore health will be discussed. Prereq: NURS 453, NURS 459 and NUND 410. Prereq or Coreq: NURS 430.

NUNP 403. Advanced Management in Pediatric Primary Care. 5 Units.
This course focuses on the primary rehabilitative health care concepts specific to the management of complex, multidimensional health problems experienced by infants, children and adolescents within the context of their family and community environments. Pathophysiology, assessment and diagnostic strategies specific to complex health problems in children are emphasized. The selection of clinical interventions, clinical decision making and evaluation of strategies used to enhance the health outcomes of children and their families will be stressed. Emphasis will be placed on the consultation and referral processes within interdisciplinary and multidisciplinary teams. Prereq: NUNP 402.

NUNP 405. Foundations for the Neonatal Nurse Practitioner. 3 Units.
This course introduces the role of the Neonatal Nurse Practitioner and concepts relevant to the management of the neonate. Students analyze nursing strategies to optimize health behaviors in families with neonates. Coreq: NUNP 416.
NUNP 410. Health Promotion Across the Life Span. 2 Units.
This course introduces diagnostic reasoning skills related to health promotion, disease prevention, and maintenance of function across the lifespan. Students develop skills that foster wellness in individuals, families, and communities. Epidemiological principles, risk appraisals, and other strategies are incorporated.

NUNP 412. Health Problems of the Neonate. 4 Units.
This course will focus on the high-risk neonate. Advanced practice nursing strategies that enhance, maintain, and restore health in ill neonates and their families will be addressed. Diagnostic and therapeutic approaches specific to the neonate will be emphasized. Prereq: NUNP 405 and NUNP 416.

NUNP 413. Adv Mgmt Acutely Ill Neonate. 3 Units.
This course will focus on assessment, and diagnostic approaches in implementation of management plans for neonates with acute health problems. Pathophysiologic changes specific to neonates with acute health problems will be incorporated. Concepts related to discharge planning and long-term follow-up will be introduced. Prereq: NUNP 405 and NUNP 412.

NUNP 414. Neonatal Nurse Practitioner IV. 5 Units.
This course focuses on the acute and on-going habilitative care specific to the management of neonates with complex health problems. Pathophysiology, assessment, and diagnostic approaches specific to complex health problems of preterm infants, infants with chromosomal aberrations, and infants with multidimensional health problems will be emphasized within the context of their family and community environments. Community-based service learning will be stressed along with follow-up of the infant and family during the first year of life. Emphasis will be placed on consultation and referral processes within multidisciplinary teams. Prereq: NUNP 405, NUNP 412 and NUNP 413.

NUNP 416. Integrated Assessment of the Neonate. 3 Units.
This course will introduce principles fundamental to the integrated assessment of the neonate. It will stress perinatal history taking including assessment of genetic risks, gestational age assessment, and physical assessment skills. The course will provide the basis for problem identification, decision making, advanced therapeutics, and case management. Coreq: NUNP 405.

NUNP 419. Family Health Nursing: Health of Adults and Older Adults. 5 Units.
This course is an introduction to the practice of primary health care of adults and older adults. Principles of health promotion, disease prevention, management of common acute and chronic health problems and the impact of the family are incorporated. Emphasis is placed on the physical, psychological, social, and cultural aspects of care. Pathophysiology, assessment and diagnostic techniques specific to the common acute and chronic health problems are integrated. Strategies related to health and illness care are used to enhance, maintain, and restore health. Collaboration with other health care professionals to enhance patient outcomes is explored. Prereq: NURS 453, NURS 459 and NUNP 410. Coreq: NURS 430.

NUNP 421. Symptom Management I. 1 Unit.
The emphasis of this course is on holistic care for persons and families, addressing symptoms that interfere with quality of life at all phases: during active-cure-oriented treatment of reversible illness, during life limiting illnesses, and at the end of life.

NUNP 422. Symptom Management II. 1 Unit.
The emphasis of this course includes the holistic care of persons and families, addressing symptoms that interfere with quality of life at all phases: during active cure-oriented treatment of reversible illness, during life limiting illnesses, and at the end of life. Contextual factors influencing care delivery will also be addressed. These include interdisciplinary collaborative practice models, financial, ethical, cultural, and legal considerations. The role of advanced practice nurse in providing quality and safety in the provision of palliative care will be emphasized. Prereq: NUNP 421.

NUNP 423. Health Promotion & Common Reproductive Health Problems of Adolescents and Adults. 4 Units.
This course introduces the student to the care of the woman from puberty through menopause and her family. Physical and psychosocial health and deviations before, during, and after the childbearing years are assessed. The course content includes principles of education for childbearing, parenting, and fertility control. Strategies to optimize health-seeking behaviors are identified. Content on pregnancy and postpartum care is integrated into the course. Prereq: NURS 459.

NUNP 431. Advanced Oncology Nursing. 4 Units.
The emphasis of this course is on the genetic basis and pathophysiology of cancer, and common treatment modalities. Advanced practice nursing responsibilities in all phases of cancer care (prevention, detection, diagnosis, treatment, survivorship, and end of life) will be discussed. Traditional, experimental, and complementary treatment modalities will be explored in relation to mechanisms of action, efficacy, and short and long-term side effects. Strategies for addressing health promotion and problem management in promoting quality of life for patients with cancer will be critically evaluated. Prereq: NUNP 419.

NUNP 432. Common & Acute Health Problems of the Adult and Older Adult. 5 Units.
This course will introduce the common and acute health problems occurring across the adult life span. A problem-oriented approach will be used with emphasis on the biological, psychological, social, and cultural aspects of care. Advanced assessment, and diagnostic reasoning strategies specific to the acute and common problems of adults and older adults will be included. Principles of pathophysiology and pharmacology will be incorporated. Advanced practice nursing strategies to enhance, maintain, and restore health will be emphasized. Prereq: NURS 453, NURS 459 and NUNP 410. Prereq or Coreq: NURS 430.

NUNP 434. Advanced Management in Adult and Older Adult Primary Care. 5 Units.
This course will focus on health care concepts specific to the management of complex dimensional health problems experienced by adults and older adults within the context of their family and community environments. Pathophysiology, assessment, and diagnostic strategies specific to complex health problems will be emphasized. Principles of pathophysiology and pharmacology will be incorporated in the development, implementation, and evaluation of plans of care to enhance patient outcomes. Prereq: NUNP 449.

NUNP 438. Foundations for Adult-Gerontology Acute Care Nursing. 4 Units.
The course focuses on establishing elements of advanced nursing practice assessment and diagnostic reasoning across the continuum of healthcare services to meet the specialized physiologic and psychological needs of adults and older adults with complex acute and/or chronic health conditions. Prereq or Coreq: NURS 453 and NURS 459 or students with an MSN and NP certification, permission of faculty.
NUNP 439. Family Health Nursing: Health of Children and Adolescents. 4 Units.
In this course students are introduced to the influence of family dynamics in the practice of primary health care of children and adolescents. The course includes the application of the principles of growth and development, disease prevention, health promotion, and management of common acute and chronic health problems in children and adolescents. Clinical application of strategies to optimize health seeking behaviors is emphasized. Collaboration with other health care professionals to enhance patient care is reinforced. Prereq: NUNP 429.

NUNP 441. Comprehensive Care of the Chronically Ill Adult and Older Adult. 4 Units.
The focus of this course is on implementation of advanced practice for patients with cancer and other life limiting conditions. Health promotion, health protection, disease prevention, and treatment of patients with cancer and other life-limiting conditions and their families will be included. An interdisciplinary approach to the care of patients and families across the cancer disease trajectory will be addressed. Cultural considerations for diverse populations will be incorporated in the implementation of advanced practice strategies.

NUNP 443. Acute Health Problems of Adults and Older Adults. 6 Units.
In this second of sequenced Adult-Gerontology Acute Care Nursing clinical courses, the emphasis is on the pathophysiology, assessment, and diagnostic approaches to adults and older adults with complex acute and chronic health disorders that manifest with physiologic instability. The clinical practicum focuses on further development of diagnostic reasoning, clinical judgment, caring practices, and collaboration in health care systems that deliver acute and critical advanced practice nursing. Prereq or Coreq: NURS 438 and NURS 459 and NURS 453 and NURS 430 or Requisites Not Met permission.

NUNP 444. Advanced Management of Acutely Ill Adults and Older Adults. 4 Units.
This third clinical course in the Adult-Gerontology Acute Care Nurse Practitioner sequence focuses on concepts specific to complex, multi-dimensional health problems of acute and critically ill adults and older adults. Clinical practice focuses on the management of patients with complex health problems and life-threatening conditions across the entire adult population. Prereq: NUNP 443.

NUNP 449. Advanced Practice Nursing Care of the Older Adult. 4 Units.
This course will integrate the principles of health promotion, disease prevention and rehabilitation in the care of older adults. The assessment of nutritional needs, functional status, mental status, social support systems, and caregiver stress will be addressed. These factors are analyzed in various environments of care. Cultural, ethnic, and developmental issues are addressed. The diagnosis, treatment and management of acute and chronic conditions associated with aging, but that can also occur in younger adults, are presented. Interventions appropriate to restore or maintain an optimal level of function will be included. Palliative and end-of-life care will be addressed. Prereq: NUNP 432.

NUNP 455. Management of Complex Acute Problems in Children I. 4 Units.
Application of knowledge, research findings, advanced skills and interventions, including pharmacotherapy, in the management of children with acute, chronic and critical conditions. Critical assessment strategies and management principals will be addressed. Coreq: NUNP 402.

NUNP 456. Management of Complex Acute Problems in Children II. 5 Units.
Integration of knowledge, research and advanced skills and interventions in acute care nursing with children with complex, acute, critical and chronic health conditions. Critical assessment strategies and management principals will be addressed including knowledge and skills with technological assessment modalities and procedures commonly associated with care of the acutely ill child. Interpretations, indications, contraindications, and complications will be addressed. Prereq: NUNP 455.

NUNP 464. Global Clinical Learning. 1 Unit.
This course will allow the MSN student to engage in clinical work in low and middle income medically under resourced communities providing direct patient care under clinical supervision of MSN faculty. Students will prepare for the experience by gaining knowledge of the history and culture of the region, common diseases prevalent in the area and orientation to the site operations. The student will focus on the 1) steps to diagnose, treat and implement a plan of care for area specific diseases; 2) culturally and resource appropriate treatments; 3) dental hygiene and nutrition as they impact the health of the local population. Students will prepare culturally appropriate presentations for local nurses and contribute to the preparation of non-medical members of the team for patient safety using current evidence based practices. Offered as NUNP 464 and NURS 464. Prereq: Enrollment in MSN, DNP or PhD in Nursing Program.

NURS Courses

NURS 115. Fundamentals of Nursing. 4 Units.
This course is designed to introduce the student to the practice, profession, and discipline of nursing. Critical historical influences on the development of the profession will be discussed. The relationship between evidence, theory, and nursing care will be explored. Contemporary nursing will be examined with a focus on patient safety, interdisciplinary care, and innovative strategies to attain optimum health. The basic components of the nursing process will be presented as a framework for beginning clinical practice.

NURS 120. Nursing Informatics 1: Introduction. 2 Units.
This course focuses on the content, flow and processing of patient information and the role of the nurse as the communication gateway for that information. It provides an overview of the key players in the health care information systems environment and how these players impact the care process. The course is designed to build an understanding of basic information technologies and the ways in which a nurse can manage the information to support the delivery of client care.

NURS 122. Foundations of the Practice II. 3 Units.
This course builds on the concepts essential to the foundations of nursing practice presented in previous nursing courses. It is designed to focus on strategies, skills, and techniques to obtain a comprehensive individual health history, family health history, and physical examination. Therapeutic interventions based on assessment and scientific knowledge will be performed. BIOL 114, BIOL 116, NURS 110, NURS 111, all with grades of C or better.

NURS 160. Health Care in the Community. 1 Unit.
This course is a seminar focused on the delivery of culturally appropriate, community-based health care and on selected issues contributing to the growing disparities in health care outcomes. Students will engage in a field experience in a Cleveland community health facility or school system. The seminar will include sessions devoted to reflection and evaluation of the field experience related to issues contributing to disparities in health care and content related to public health nursing.
NURS 201. Applied Nutrition in Health and Disease. 2 Units.
This course builds upon the student's knowledge of human physiology and metabolism. Nutrient requirements are highlighted as well as changes related to different stages in the lifespan. Contemporary nutritional issues will be addressed. Prereq: BIOL 114 and BIOL 116.

NURS 210. Teaching/Learning in the Community. 1 Unit.
This course expands on foundational public health nursing concepts to develop student knowledge, skills, and attitudes in providing culturally competent health care to diverse populations using the service learning model. This course explores the relationships between, learning needs, health literacy, teaching/learning interventions and evaluation of learning. Utilizing a balance between knowledge-centered and skill-centered approaches to delivering culturally competent care, students will engage in both traditional classroom and transcultural experiential learning encounters. Prereq: NURS 160.

NURS 211. Introduction to Pharmacology 1. 1.5 Unit.
This course is the first of two courses introducing the basic principles of pharmacology and pharmacotherapeutics, including review of characteristics and use of major drug classifications with emphasis on nursing implications. The pharmacological content presented in this course will be coordinated with Nursing Care of the Adult 1 with emphasis placed on patients experiencing co-morbid conditions. Prereq: BIOL 117, CHEM 119, NURS 122. Coreq: NURS 230 and NURS 250.

NURS 212. Introduction to Pharmacology 2. 1.5 Unit.
This course is the second of two courses introducing the basic principles of pharmacology and pharmacotherapeutics, including review of characteristics and use of major drug classifications with emphasis on nursing implications. The pharmacological content in this course will be coordinated with Nursing Care of the Adult 2 with emphasis focused on patients experiencing co-morbid conditions. Prereq: NURS 211, NURS 230 and NURS 250. Coreq: NURS 240 and NURS 317.

NURS 230. Nursing Care of the Adult 1. 5 Units.
This is the first of two courses focusing on the application of the nursing process to adults and older adults experiencing common acute and chronic health alterations. Special emphasis is placed on patient assessment, diagnostic testing, beginning medication teaching and administration, and other nursing interventions as they relate to caring for adults and older adults with alterations in fluid/electrolyte and acid/base balance, and respiratory, cardiac, genitourinary, and endocrine (diabetes) functioning. Care of the patient in the perioperative setting and care of the patient with cancer are also emphasized. Prereq: BIOL 117, CHEM 119, NURS 122. Coreq: NURS 211, NURS 250.

NURS 240. Nursing Care of the Adult 2. 4.75 Units.
This course builds upon the knowledge and skills mastered in NURS 230. Course content and learning opportunities provide students with the information necessary to collaborate with other members of the health care team in providing comprehensive care to adults and older adults. Students are expected to collaborate with members of the health care team to plan and implement interventions and to evaluate patient responses to selected interventions. Special emphasis is placed on patients experiencing co-morbid conditions which include alterations in immunologic, hematologic, gastrointestinal, musculoskeletal, and neurologic functioning. Prereq: CHEM 121, NURS 211, and NURS 230. Coreq: NURS 212.

NURS 250. Aging in Health and Illness. 2 Units.
This course will explore the concept of aging as a healthy developmental process with a particular focus on older adults as active, independent and contributing members of the community. Content will include the process of healthy aging, major health problems for which older adults are at risk, and policy issues. Prereq: BIOL 117, CHEM 119, NURS 122. Coreq: NURS 211.

NURS 260. Evidence Based Public Policy in the Community. 1 Unit.
This course expands on foundational public health nursing concepts to develop student knowledge, skills, and attitudes in providing culturally competent health care to diverse populations using the service learning model. Utilizing a balance between knowledge centered and skill centered approaches students will apply concepts of team work and collaboration to experiential learning outcomes. Prereq: NURS 160.

NURS 277. BCLS and First Aid for Health Care Providers. 0 Unit.
Designed for healthcare professional students, this course follows the American Heart Association Basic Life Support (BLS) for Healthcare Providers Course objectives. It provides a variety of healthcare professional students the ability to recognize several life-threatening emergencies, provide CPR, use an AED, and relieve choking in a safe, timely and effective manner. Basic first aid skills are also included in this course.

NURS 310. Leadership in the Community. 1 Unit.
This public health course is designed to develop student knowledge, skills and attitudes in providing culturally competent health care to diverse populations, using the service learning model. Students will explore nursing's role as a community health advocate in the promotion of health and the elimination of health disparities. Utilizing a balance between knowledge-centered and skill centered approaches to delivering culturally competent care, students will apply leadership concepts in both traditional classroom and transcultural experiential learning encounters. Prereq: NURS 210 and NURS 260.

NURS 315. Parents and Neonates in Health and Illness. 4.5 Units.
This course focuses on the study of child bearing families and their health-seeking behaviors from a developmental perspective. Content includes nursing knowledge and skills related to assessment of health status of parents and neonates. Nursing strategies focusing on interventions to promote, restore, and maintain health are discussed. Prereq: NURS 212, NURS 240, NURS 317, NURS 342, and SOCI 203.

NURS 316. Infants, Children, and Adolescents in Health and Illness. 4.5 Units.
The study of infants, children, and adolescents, and the health-seeking behaviors from a developmental perspective. Emphasis is on healthy infants, children, and adolescents as well as infants, children, and adolescents with common, acute, and chronic illness within the context of their family environment. Nursing strategies focus on interventions to promote, restore, and maintain health and foster growth and development. Prereq: NURS 212, NURS 240, NURS 317, NURS 342, and SOCI 203. Coreq: NURS 315.

NURS 317. Psychiatric-Mental Health Nursing. 3.75 Units.
The course is designed to address health-seeking behavior patterns within the context of psychiatric and mental health nursing concepts. The focus is on clients with psychiatric disorders and their mental health. Nursing strategies that are appropriate for assessment and intervention with individuals, families, and groups to facilitate optimal mental health will be discussed and practiced. Prereq: NURS 211 and NURS 230. Coreq: NURS 212.
NURS 320. Theoretical and Evidence Bases for Best Practice in Nursing. 3 Units.
This course explores the theoretical and evidence bases for best practices in nursing. The course begins with an overview of the theoretical and philosophical underpinnings of nursing practice and nursing science. The course includes an intensive focus on the concept of evidence based practice and the process of evaluation supporting practice. Additionally, the course introduces evaluation models used to determine the effectiveness and quality of existing practice and to recommend improvements. Counts as SAGES Departmental Seminar. Prereq: STAT 201 or STAT 210R.

NURS 338. Care of the Adult and Older Adult with Complex Health Alterations. 4.5 Units.
The purpose of this course is to provide the student with the knowledge and skills to care for one or more complex, acutely ill adult patients, who presents with co-morbid conditions and may be dependent on technologies. This complexity encompasses the physical, psychological, social, spiritual, and ethical domains of care and includes both patient and the family. Prereq: NURS 212, NURS 240, NURS 342 and NURS 317. Coreq: NURS 339.

NURS 339. Care of the Perioperative Patient. 3.5 Units.
The purpose of this course is to provide the student with a dynamic learning experience in a perioperative environment to enhance the knowledge, cognitive and psychomotor skills to care for one or more patients undergoing operative or invasive procedures. The Perioperative Patient-Focused Model (AORN, 2008) will provide the framework for this course. This Model addresses patient centered care, patient safety, physiologic responses, and behavioral responses of the patient and family. In addition, content will cover issues of quality and safety, informatics, and identification of evidence based practice within the perioperative context. The clinical setting is interdisciplinary and multidisciplinary with other members of the perioperative team. As a member of this team, the student will develop strategies to inspire team work and collaboration with emphasis on communication, patient advocacy and leadership skills. Prereq: NURS 212, NURS 240, NURS 317 and NURS 342. Coreq: NURS 339.

NURS 341. Concepts of Management and Leadership. 3 Units.
This course focuses on the study of basic concepts related to leadership and management in the provision of nursing care. Highlighted units of instruction include organizational culture and structure, leading high performing teams, human and capital resource management, delegation and outcome evaluation. The management functions of planning, organizing, directing and evaluating are explored. Prereq: NURS 315, NURS 316, NURS 338, NURS 339.

NURS 342. Medical Microbiology, Immunity, and Infectious Disease. 4 Units.
Introduction to viral, bacterial, rickettsial, fungal and parasitic organisms pathogenic to humans, known to be the etiological agents of infectious diseases. Review of the course, manifestations, pathogenesis, epidemiology and therapies of selected diseases associated with the infectious disease intervening variable. Prereq: BIOL 117 and CHEM 121.

NURS 343. Issues and Ethics in Health Care. 2 Units.
This course is designed to introduce the student to the principles underlying ethical issues and methods of rational decision making. Fundamental theories will be reviewed and opportunity provided, using case analysis, to apply the theories in addressing ethical dilemmas common to modern health care. Prereq: NURS 315, NURS 316, NURS 338, and NURS 339.

NURS 345. Nursing Informatics 2. 2 Units.
This course builds on information learned in NURS 120, and focuses on the use of informatics in nursing practice, education, and research. The emphasis is on using informatics to solve clinical problems. The course addresses how nursing informatics has evolved as a discipline and explores career options in nursing informatics. Current policy and legislative influences on health care technology are also addressed. Prereq: NURS 120.

NURS 352. Acute Care 3. 8 Units.
This course focuses on the knowledge and skills necessary to provide nursing care for patients with complex problems. Emphasis is on nursing strategies designed to provide comprehensive care to patients and their families affected by acute illness. Clinical practice is directed toward the care of acutely ill adults. Prereq: NURS 338 and NURS 339.

NURS 354. Nursing Care of Critically Ill Adults. 8 Units.
This course focuses on the integration of knowledge and skills to provide effective and efficient nursing care to critically ill adults. Emphasis is on nursing strategies directed towards the care of the critically ill patient with a focus on use of biomedical technology, planning and managing patient care, and beginning care of patients with complex care needs. Prereq: NURS 338 and NURS 339.

NURS 356. Nursing Care of Critically Ill Neonates, Infants, and Children. 8 Units.
This course focuses on the knowledge and skills necessary for beginning practice in the nursing care of critically ill neonates, infants and children. Emphasis is on nursing strategies directed towards the application of basic principles of critical care nursing with attention to special needs of critically ill neonates, infants and children and their families. Prereq: NURS 338 and NURS 339.

NURS 360. Process Change in the Community. 1 Unit.
This public health nursing course is designed to develop student knowledge, skills, and attitudes in providing culturally competent health care to diverse populations, using the service learning model, by analyzing key community components that influence health and wellness. Students will explore nursing’s role as a community health advocate in the promotion of health and the elimination of health disparities. Utilizing a balance between knowledge-centered and skill-centered approaches to delivering culturally competent care, students will engage in both traditional classroom and transcultural experiential learning encounters. Prereq: NURS 210 and NURS 260.

NURS 370. Information Technologies in Health. 1 Unit.
The focus of this course is the application of advanced information technologies in the health care of communities and populations. Building on a base of pre-requisite informatics course knowledge and student clinical experiences, the course will explore contemporary issues in informatics and the ways in which a nurse can manage the information to support the delivery of care to clients, communities, and populations. Prereq: NURS 345.

NURS 371. Public Health Nursing. 3 Units.
In this course, students will utilize a problem-based approach to develop knowledge and specific competencies in applying key concepts of public health, public health nursing and epidemiology. Through guided observation and classroom experiences, students will discover strategies to assess, plan, implement and evaluate population-focused programs for health promotion and disease prevention. Prereq: NURS 310 and NURS 360.
NURS 372. Health in the Global Community. 3 Units.
This course focuses on an analysis of the forces shaping community and global health patterns. Drawing on multidisciplinary sources, this course explores the impact of these global processes as they manifest in the health of our own and other societies. Emphasis is placed on analysis of the broad cultural, environmental, social-economic, and political systems that contribute to health status and outcomes, health policies, and health care delivery around the world. Prereq: NURS 310 and NURS 360.

NURS 373. Global Health Practicum. 5 Units.
The purpose of this practicum is to provide students with the opportunity to analyze the concepts of health and health care, health policy and finance, culture and ethics through a preceptored, community-based immersion experience in local, national or international settings. Students will apply epidemiological techniques, the skills of negotiation, partnership building, community assessment and nursing science in the identification and analysis of a health problem leading to the development of an intervention. Counts as SAGES Senior Capstone. Prereq: NURS 315, NURS 316, NURS 338, NURS 339. Coreq: NURS 371 and NURS 372.

NURS 394. Advanced Communication Strategies for Health Care Professionals. 1 Unit.
This course is designed to provide health care professionals with knowledge about providing holistic care for clients of all ages and their families living with advanced illness. Palliative care as a discipline will be examined, with an emphasis on the interprofessional team in assisting patients and their families to make health care plans that reflect their goals and preferences.

NURS 400. Guided Study in Nursing. 1 - 18 Units.
Independent guided study for undergraduate students with special needs or interests.

NURS 404. Emergent Care of the Child. 2 Units.
This course provides an introduction to the care of the child requiring critical care transport (CCT). This course examines pathophysiology, assessment, diagnostic approaches, and interventions specific to emergent care of infants, children and adolescents by advanced nursing practice in CCT. Prereq: NURS 406.

NURS 405. Inquiry I - Theoretical Foundations. 2 Units.
This course provides an introduction to conceptual and theoretical thinking. Students will examine knowledge development in nursing, conceptual structures, and their uses as a basis for nursing practice and research.

NURS 406. Flight Nursing Seminar I. 1 Unit.
This course introduces the knowledge and skill set for advanced nursing practice in critical care transport. The unique features of delivering care in the critical care transport environment are emphasized.

NURS 407. Critical Care Transport and Advanced Nursing Practice 2. 1 Unit.
This course further develops the knowledge and skill set of advanced nursing practice to deliver care to individuals and groups of patients with critical illness. Emphasis is placed on diagnostic reasoning and patient management in unstructured environments. Prereq: NURS 406.

NURS 416. Integrated Assessment of the Neonate for Midwives. 1 Unit.
This course will introduce concepts fundamental to the integrated assessment of the neonate. Gestational age assessment and physical assessment skills will be developed. The course will provide the basis for problem identification, decision making, and case management. Coreq: NURS 457.

NURS 421. Foundations of Palliative Care. 1 Unit.
This course is designed to provide health care professionals with knowledge about providing holistic care for clients of all ages and their families living with advanced illness. Palliative care as a discipline will be examined, with an emphasis on the interprofessional team in assisting patients and their families to make health care plans that reflect their goals and preferences.

NURS 422. Advanced Communication Strategies for Health Care Professionals. 1 Unit.
This course is designed to provide health care professional with theory, knowledge and skills important in establishing effective communication with clients, families and interprofessional team members when caring for clients living with advanced illness. Initiation of goal directed conversations, advance care planning and family meetings will be examined.

NURS 423. Palliative Care in Specialized Populations. 1 Unit.
This course is designed for the health care professional to apply knowledge and skills in the provision of palliative care to selected populations. Current trends, ethical issues, and symptom management challenges are addressed. Prereq: NURS 421.

NURS 424. Advanced Symptom Management in Palliative Care. 1 Unit.
This course will enable health care professionals to gain knowledge and skills in providing advanced symptom management to patients and families experiencing complex illness. The management of selected distressing symptoms using evidence based strategies will be investigated. Prereq: NURS 421 and NURS 422.

NURS 425. Inquiry II - Research Process. 3 Units.
This course emphasizes scholarly inquiry, scientific integrity and scientific investigation. It includes study of the research process, particularly design, sampling, data collection and analysis, and interpretation and reporting of findings. Prereq: NURS 405.

NURS 430. Advanced Pharmacology. 3 Units.
This course focuses on the application of advanced pharmacology and pharmacotherapeutics for common conditions across the lifespan. Principles of pharmacokinetics, pharmacodynamics, and pharmacogenomics are applied. Pharmacotherapeutic decision points congruent with effective prescribing are emphasized, including integrating the ethical, legal and cost-benefits of pharmacological interventions. This course is designed to build on diagnostic reasoning and prior pharmacology study of actions and effects of drugs on the human system. RN licensure and practice recommended Prereq: Enrolled in MSN, DNP or PhD Nursing program.
NURS 431. Psychosocial and Spiritual Dimensions of Advanced Nursing Practice. 2 Units.
This course will focus on psychosocial and spiritual dimensions of care. Focused interviewing, counseling, and coaching skills will be examined. Skills in assessing spirituality, depression, psychological distress, and substance use issues will be addressed.

NURS 443A. Collaboration, Consultation, & Credentialing in Advanced Practice Nurs. 1 Unit.
The focus of this course is the process of consultation and collaboration in advanced practice nursing. The organizations that are involved in promoting and assisting advanced practice nurses (APNs) will be addressed. The similarities and differences in the roles of the APN will be explored. The process of credentialing APNs will also be examined.

NURS 443B. Role Development in Advanced Practice. 1 Unit.
The focus of this course is the study of the multiple roles integrated into advanced practice nursing including principles of management and leadership. Strategies to market the value of the advanced practice nurse (APN) role and the individual APN are addressed.

NURS 443C. Teaching and Learning in Advanced Practice. 1 Unit.
The focus of this course is the examination of the process of teaching, learning, and evaluation. A variety of teaching modalities applicable across the lifespan will be explored.

NURS 444A. Ethical Issues in Advanced Nursing Practice. 1 Unit.
The focus of this course is ethical decision-making for advanced nursing practice. The interaction between the health care delivery system and ethical decision making is explored. The role of the nurse in identifying and addressing ethical dilemmas and applying communication strategies in assisting patients and families and the interdisciplinary team is emphasized.

NURS 444B. Health Care Delivery and Finance in Advanced Practice. 1 Unit.
The focus of this course is the study of the financial and business factors related to health care delivery and advanced practice nursing. Students will discuss strategies related to business practices, coding, billing, and reimbursement.

NURS 444C. Health Policy Legislation and Legal Issues in Advanced Practice. 1 Unit.
The focus of this course is the critical analysis of health policy and legal issues. Strategies for influencing health policy will be explored.

NURS 451. Leadership for Quality Healthcare within Organizations and Systems. 3 Units.
This course will prepare the student to take a leadership role within organizations and systems to improve the quality of health care. Theory-based strategies to promote change within organizations and systems will be examined. The influence of structural and contextual factors on health, current and emerging information technologies, and communication patterns influencing outcomes of care will be explored.

NURS 452. Advanced Midwifery. 5 Units.
In this course, students will learn to assess and manage common gynecologic and family planning issues encountered by a diverse population of women in ambulatory settings. Culturally appropriate interventions will be integrated throughout. Supervised clinical experiences will focus on achieving the foundation for beginning practice. This will include anticipating and identifying complications and participating in consultations, referrals, and collaborative management. The application and synthesis of these principles, theories and concepts will be emphasized in clinical practicum. Prereq or Coreq: NURS 453 and NURS 459.

NURS 455. The Childbearing Family. 4 Units.
The focus of this course will be the application of theory, practice, and research by advanced practice nurses in the promotion of health and wellness of childbearing women using a family-centered approach. Emphasis will be on normal aspects of pregnancy, focusing on prevention of problems and promotion of health behaviors, as well as identification and management of deviations from normal. Supervised clinical experiences will include understanding normal pregnancy, anticipating and identifying complications, participating in consultations, referrals, and collaborative management. Prereq: NURS 454. Coreq: NURS 430.

NURS 457. Labor and Birth. 5 Units.
The art, theory, and the science for nurse-midwifery practice is expanded through research, critical analysis of disseminated research, quality assurance, and other scholarly activities. The focus of this course will be the application of theory, practice and research by advanced practice nurses in the promotion of health and wellness of women, newborns and their families during intrapartum and the immediate postpartum period. Emphasis will be placed on the health-seeking behaviors of the mother and her family using a holistic approach which respects cultural, ethnic, and racial diversity in the provision and evaluation of care. Supervised clinical experiences will focus on achieving the foundation for competent practice as a beginning practitioner. This will include anticipating and identifying complications and participating in consultations, referrals, and collaborative management. Prereq: NURS 559.

NURS 459. Advanced Health Assessment. 3 Units.
This course focuses on advanced assessment of individuals across the lifespan. This course incorporates communication skills, interpretation of data, and diagnostic reasoning. Prereq: Enrolled in Master of Science in Nursing Program.

NURS 464. Global Clinical Learning. 1 Unit.
This course will allow the MSN student to engage in clinical work in low and middle income medically under resourced communities providing direct patient care under clinical supervision of MSN faculty. Students will prepare for the experience by gaining knowledge of the history and culture of the region, common diseases prevalent in the area and orientation to the site operations. The student will focus on the 1) steps to diagnose, treat and implement a plan of care for area specific diseases; 2) culturally and resource appropriate treatments; 3) dental hygiene and nutrition as they impact the health of the local population. Students will prepare culturally appropriate presentations for local nurses and contribute to the preparation of non-medical members of the team for patient safety using current evidence based practices. Offered as NUNP 464 and NURS 464. Prereq: Enrollment in MSN, DNP or PhD in Nursing Program.

NURS 465. Psychopharmacology. 2 Units.
Course content will focus on drugs commonly used to treat psychiatric disorders and clinical implications for patient and family.
NURS 466. Promoting Health Across Boundaries. 3 Units.
This course examines the concepts of health and boundary spanning and how the synergy of the two can produce new, effective approaches to promoting health. Students will explore and analyze examples of individuals and organizations boundary spanning for health to identify practice features affecting health, compare and contrast practices and approaches, and evaluate features and context that promote or inhibit boundary spanning and promoting health. Offered as PQHS 466, PQHS 466, SOCI 466, NURS 466 and BETH 466. Prereq: Graduate student status or instructor consent.

NURS 468. The Continual Improvement of Healthcare: An Interdisciplinary Course. 3 Units.
This course prepares students to be members of interprofessional teams to engage in the continual improvement in health care. The focus is on working together for the benefit of patients and communities to enhance quality and safety. Offered as PQHS 468, MPH 468, and NURS 468.

NURS 473. Advanced Psychopathology Across the Lifespan: Part I (Infant through Young Adult). 2 Units.
The course focuses on the assessment and diagnosis of psychopathology in children of all ages, infants through young adults. Behavioral deviations from normal growth and development will be assessed while considering age, social, cultural, and economic differences. The responses of family members to psychopathology in these age groups will be discussed.

NURS 474. Advanced Psychopathology Across the Lifespan Part II (Adult and Older Adult). 2 Units.
This course focuses on the assessment and diagnosis of psychopathology in adults and older adults. Behavioral/cognitive deviations from normal growth and development will be evaluated while considering socio-cultural differences and age-appropriate behavior. Responses of family members in relation to adults or older adults’ psychopathology will be discussed. Prereq: NURS 473.

NURS 475. General Systems Theory: Foundations for Practice. 2 Units.
This foundational seminar introduces General Systems Theory as a framework for understanding complex entities comprised of component parts that are in constant and mutual interaction. The concepts covered will emphasize the openness and flexibility of a system by attending to its entirety as opposed to focusing on separate parts. The focus is on the organizational structure and processes of that system that are circular in nature through cybernetics processes such as feedback loops which allow system adaptation and transformation. These changes enable systems to become more organized and efficient and to develop the capacity to repair themselves. Students will apply General Systems Theory to their disciplines.

NURS 476. Advanced Practice Seminar: Blended Role of Psychiatric-Mental Health APRN. 1 Unit.
Within the context of family and community, students will explore the blended role of the Psychiatric Mental Health Nurse Practitioner and Psychiatric Mental Health Clinical Nurse Specialist. A focus of the course is boundaries and professional development in the blended role. Students will examine ethical, legal, cultural and professional standards as they relate to micro and macro systems.

NURS 481. Family Systems Theoretical Foundations. 2 Units.
This course focuses on the major contemporary theoretical approaches and therapies for conceptualizing and working with families across the lifespan. Attention is given to families challenged by situations such as stress, trauma, violence, psychiatric disorders, and substance abuse. Prereq: NURS 453 and NURS 473 and NURS 475 and NURS 476 or requisites not met permission.

NURS 482. Family Systems Integration and Application. 1 Unit.
This practicum experience in the application of family theory addresses the professional encounter between the advanced practice nurse (APN) and the family system with attention to health promotion and psychiatric disorder management. Special consideration is given to policy, legal, cultural, and ethical issues regarding family care and practice. Group supervision of the practicum experience is an expectation. Prereq: NURS 473 and NURS 475 and NURS 476. Coreq: NURS 474 and NURS 481.

NURS 484. Individual and Group Modalities for Family Systems Practice Across the Lifespan. 3 Units.
This seminar addresses therapeutic modalities and their foundation as they are applied to families across the lifespan. Brief, individual, and group modalities will be studied in the context of Family Systems Theory with a focus on differences in family constellations and developmental stages. The selection of modalities for families will consider the implications of cultural and gender differences, vulnerable populations, and the stigma of psychiatric illness. Prereq: NURS 481 and NURS 482.

NURS 485. Practicum and Supervision: Family Systems Practice Across the Lifespan. 2 Units.
This practicum experience involves the professional encounter between the individual, group members, and nurse therapist within the context of family systems theory. The nurse therapist employs nursing strategies and concepts from psychiatry and behavioral and social sciences related to the promotion of mental health and biopsychosocial treatment in individual and group members across the life span. Attention will be given to situations such as stress, loneliness, trauma, violence, and substance abuse. Group supervision of the practicum experience is an expectation. Prereq: NURS 481 and NURS 482. Coreq: NURS 484.

NURS 486. Modalities for Family Systems Practice: Vulnerable Family Populations. 3 Units.
Within the context of family and community in urban and rural settings, students will explore the special needs of families who are currently manifesting mental health and substance abuse disorders. Examples of vulnerable families include those who have been exposed to acute and chronic stress, natural and man-made disasters, and military-related and other forms of trauma. The needs of youth and adults who are incarcerated will be addressed. Students will encounter the diverse nature of family relationships, including blended, migrant, and immigrant families; relationships that are defined by choice; and families residing on reservations and in religious enclaves. A variety of treatment modalities will be discussed. Prereq: NURS 482 and NURS 485.

NURS 488. Theoretical Basis of Practice and Supervision in Consultation, Collaboration. 2 - 3 Units.
This course focuses on the professional encounter between the nurse consultant-educator and families, work groups, and communities within the context of an environment of care. The nurse consultant-educator applies general systems and family systems theory to enhance the capacity of families to learn, adapt, and develop through mutual interaction and cybernetic processes based on systems theory. The roles of the nurse, educator, researcher, administrator, and therapist supervisor are explored. The theories and processes of consultation, collaboration, and adult education are discussed relative to mental health and community education. Prereq: NURS 484 and NURS 485.
NURS 489. Practicum and Supervision in Role of Family Systems Psych-Mental Health Advanced Practice Nurse. 3 Units.

This practicum course emphasizes the professional encounter between the psychiatric mental health nurse practitioner (NP), families, organizations, communities and agency personnel providing mental health services in the context of an environment of care. Systems variables that influence the learning, adaptation and development of families, organizations and systems are emphasized. The psychiatric nurse clinician functions as a change agent in direct and indirect care through the role of practitioner, educator, consultant, planner, evaluator and researcher. Prereq: NURS 484 and NURS 485. Coreq: NURS 488.

NURS 494. Global Health Seminar. 3 Units.

The focus of this course is the issues and trends in global health from both a nursing and a trans-disciplinary perspective. The course covers how international social, political, economic, environmental, and cultural issues affect health and health care. Particular emphasis is placed on nursing’s contribution to global health issues and outcomes. Offered as: NURS 394 and NURS 494.

NURS 502. Inquiry III Evidence-Based Practice. 2 Units.

This course will focus on linking research evidence to practice. Processes for appraisal and implementation of evidence-based practice will be included. Prereq: NURS 425 or Requisites Not Met permission.

NURS 503. Inquiry Practicum. 1 - 2 Units.

This course focuses on the development of competencies in scientific inquiry. Such competencies are achieved through participation in a research study or evidence-based project related to nursing science with dissemination of the experience. Prereq or Coreq: NURS 502.

NURS 506. Nursing Epistemology. 3 Units.

This course involves the study of knowledge shared among members of the discipline, the patterns of knowing and knowledge development, and criteria for evaluating knowledge claims and philosophy of science. The course is a search and discussion experience aimed at enabling graduate students to become knowledgeable about approaches to the study of disciplines and scientific knowledge development. Forces affecting the development of knowledge, the origins of key terms and concepts, and identification of major themes in nursing will be explored.

NURS 507. Clinical Knowledge. 3 Units.

This course is structured to allow students to develop clinical knowledge about their area of interest and to begin the process of identifying clinical research questions. Supervision for this experience will be twofold. Students will be placed with an expert clinician with a minimum of a master’s degree (in nursing) to identify and arrange relevant clinical experiences. The student and the clinician will work with the course faculty to create opportunities for the student to experience the clinical phenomena of interest, which may include actual "hands-on" experience. Students will also meet regularly with the other students in the course and the course faculty for group supervision that focuses on linking clinical practice issues to research questions. Course requirements would include eight hours of practicum experiences per week.

NURS 508. Context of Care. 3 Units.

This course is designed to allow students to explore the social, political, economic, and health care issues that form the context for their clinical phenomena of interest. The intent of this course is for the student to become knowledgeable about the broader forces that affect their clinical problem. Topics might include current research in their field, as well as health policy related to their phenomena, political entities that affect funding, and the regulation of practice in their area of interest. The student will need a content expert to help them plan and coordinate their practicum experiences, which should be multiple and varied, and include exposure to both local and state level entities. Prereq: NURS 507 or equivalent.

NURS 510. Health Disparities. 3 Units.

This course aims to provide theoretical and application tools for students from many disciplinary backgrounds to conduct research and develop interventions to reduce health disparities. The course will be situated contextually within the historical record of the United States, reviewing social, political, economic, cultural, legal, and ethical theories related to disparities in general, with a central focus on health disparities. Several frameworks regarding health disparities will be used for investigating and discussing the empirical evidence on disparities among other subgroups (e.g., the poor, women, uninsured, disabled, and non-English speaking populations) will also be included and discussed. Students will be expected to develop a research proposal (observational, clinical, and/or intervention) rooted in their disciplinary background that will incorporate materials from the various perspectives presented throughout the course, with the objective of developing and reinforcing a more comprehensive approach to current practices within their fields. Offered as CRSP 510, PQHS 510, MPH 510, NURS 510, and SASS 510.

NURS 511. Strategies for Theory Development. 3 Units.

This course examines the nature of theory and strategies for theory development in nursing. Students will explore a variety of strategies and select an approach for beginning theory development that addresses nursing phenomena in their area of interest. Prereq: Admission to PhD nursing program or requisites not met permission.

NURS 518. Qualitative Nursing Research. 3 Units.

This course examines research approaches directed towards the development of nursing knowledge. This course will include methods and issues in data collection, analysis, and critique of research findings. It will focus on the philosophical and epistemological foundations of qualitative research, present an overview of various methodological approaches, examine the criteria for rigor, and analyze ethical issues in qualitative methodologies. Prereq: Admission to PhD nursing program or requisites not met permission.

NURS 523. Advanced Practice Nursing in Critical Care Transport Practicum. 1 - 5 Units.

This practicum is designed to promote safe, effective care in critical care transport (CCT) by advanced practice (APN) nurses and APN nursing students. Experiential learning is individualized with a focus on the assessment and management of patients with life-threatening or time sensitive conditions. Precepted experiences address the knowledge, skills and attitudes for optimal CCT across the lifespan. Students will be required to have eligibility or certification in AGACNP or equivalent.
NURS 530. Advanced Nursing Research Methods I. 3 Units.
This course focuses on conceptualization of a research problem within a nursing perspective, systematic literature review of a substantive area of research, and the design component of a research study to address scientific gaps. Descriptive, quasi-experimental, experimental, and mixed methods designs will be examined. Threats to internal and external validity will be discussed. The emphasis is on the application of design strategies while encouraging flexibility in conceptualizing a study using different research methods. Coreq: NURS 532 or requisites not met permission.

NURS 531. Advanced Nursing Research Methods II. 3 Units.
This course focuses on sampling, measurement, instrumentation, data management, intervention development, and human subjects’ issues. These will be discussed and applied within the context of a scientific study in a substantive area that is consistent with theoretical and empirical knowledge and the nursing perspective. Prereq: NURS 530 and NURS 532 or consent of instructor.

NURS 532. Applied Statistics. 3 Units.
This course provides an advanced overview of the assumptions and applications necessary to analyze and interpret questions and research related to clinical practice. Emphasis will be on statistical interpretation of research. During the course, data management, statistical analysis, and data interpretation, as well as univariate, bivariate, and multivariate statistics such as ANOVA and ANCOVA will be examined. The data analysis process will be examined and deconstructed throughout the course. Offered as NUND 450 and NURS 532. Prereq: Admission to PhD nursing program or requisites not met permission.

NURS 557. Advanced Midwifery. 6 Units.
In consultation with faculty, students select a nurse-midwifery service where they will assume the responsibilities of beginning practitioner for a minimum of 10 weeks of intensive supervised clinical practice. Students will synthesize the nurse-midwifery management process while providing continuity of care and integrating all core competency areas. Students will explore the professional aspects of nurse-midwifery practice. Historical development of the profession will be emphasized as a framework for understanding current issues related to nurse-midwifery education and practice in the United States. Prereq: NURS 457.

NURS 559. Primary Care in Women's Health. 4 Units.
In this course, students will gain knowledge needed to assess and manage primary health care problems commonly encountered by diverse populations of women in ambulatory settings. This course will prepare the student to use the problem-solving approach to assist individuals with common acute and chronic health problems. Culturally appropriate health promotion and disease prevention will be integrated throughout. The synthesis and application of these principles, theories and concepts will be emphasized in clinical practicum. Prereq: NURS 454 and NURS 455.

NURS 578. Curriculum and Instruction. 3 Units.
The purpose of this course is to explore the theoretical underpinnings of education and to examine innovative approaches to critical thinking. Students are provided the opportunity to analyze philosophies and principles of education along with teaching and learning styles. The course will focus on curriculum planning and development congruent with the philosophy and objectives of a nursing program. Curriculum development includes determination of program and course objectives, along with selection and organization of appropriate learning experiences to meet these objectives. Techniques for instruction in the classroom, laboratory, and clinical settings are explored.

NURS 601. Special Problems. 1 - 12 Units.
This course is offered, with permission, to Ph.D. students in Nursing undertaking reading in a field of special interest.

NURS 609. Health Care Policy and Planning. 3 Units.
The primary focus of this course is to explore the leadership role of nurses in health policy development and implementation as well as the role of research in health care policy formation and planning. Special emphasis is placed on selected national and international health policy issues that form the socio-political and economic context of nursing care and practice. Ethical dimensions of public policy formulations and implementation are highlighted. Offered as NUND 508 and NURS 609.

NURS 615. Topical Seminar in Health Science Research. 3 Units.
This PhD course is designed to provide an in-depth knowledge of research issues in a given area. Opportunities are provided to apply knowledge for further development of the student’s research interests and ideas. An in-depth examination of selected theoretical and methodological approaches to the development of research related to human science will be emphasized. Interrelationships among theory, research, and knowledge from nursing and related disciplines will be explored. Prereq: Admission to PhD nursing program or Requisites Not Met permission.

NURS 619. Theoretical Foundations of Educational Testing and Evaluation. 2 Units.
In this course, an overview of educational measurement and evaluation is provided. Methods of evaluating teaching effectiveness, student learning, and student performance are explored. Prereq: NURS 578.

NURS 621. Teaching Practicum. 1 - 6 Units.
In this preceptored teaching practicum, the student may engage in classroom, laboratory, and clinical teaching assignments in nursing. The student will be expected to use current educational theory and nursing knowledge in completing the practicum experience (minimum 60 hours). Offered as NUND 615 and NURS 621. Prereq: NURS 578, NURS 619, NURS 620. Coreq: NURS 578, NURS 619.

NURS 630. Advanced Statistics: Linear Models. 3 Units.
This course is offered, with permission, to Ph.D. students in Nursing undertaking reading in a field of special interest.

NURS 631. Advanced Statistics: Multivariate Analysis. 3 Units.
This course focuses on selected advanced multivariate topics and procedures in health research. Topics will be covered through lecture, readings, computer analysis as well as critical analysis of published research in the health sciences fields. Topics to be covered in this course include: survival analysis, factor analysis, path analysis, repeated measures ANOVA and advanced regression techniques (logistic, logistic, mixed models). Prereq: NURS 630 or Requisites Not Met permission.

NURS 632. Advanced Statistics: Structural Equation Modeling. 3 Units.
This course focuses on advanced data analytic procedures using structural equation modelings (SEM) in health research. Content will be explored through lecture, computer analysis, and critical analysis of relevant research. Topics covered in this course include: SEM with latent variables, path analysis adjusting for measurement error, nested models, and advanced SEM techniques, e.g., exploratory SEM, autoregressive models, latent growth curves, and latent class analysis using mixture modeling. Prereq: NURS 630 or Instructor Consent
**NURS 671. Proposal Development. 1 - 6 Units.**
Provides an opportunity for guided development of a candidacy proposal through planned contact with a designated committee of faculty members. The aim is to assist the student in the development of a refined proposal with strong scientific merit. The course should be utilized only by those with a candidacy proposal statement. Minimum 3 hours required for progression in program.

**NURS 701. Dissertation Ph.D.. 1 - 9 Units.**
Prereq: Predoctoral research consent or advanced to Ph.D. candidacy milestone.