

NURSING (NUR)

NUR 500. Biostatistics. 1 Credit.

This biostatistics course is an introduction to probability concepts and statistical tests currently used in the biological and health sciences. The course covers the application of statistics to data analysis. An emphasis is placed on inferential statistics, which includes estimation, confidence intervals, means, variances and proportions.

Prerequisites: None

Offered: Every year, Fall and Summer Online

NUR 514. Epidemiology and Population Health. 2 Credits.

This course introduces epidemiologic principles, methods and data used in advanced nursing practice. Data and evidence from research are used to: assess acute and chronic population health problems/topics, provide effective possible interventions; and address and examine outcomes.

Prerequisites: None

Offered: Every year, All Online

NUR 515. Communications and Conflict Management. 3 Credits.

This course provides an introduction to communication and conflict management skills and systems necessary for effective health care delivery and managing or advising health care institutions. Students examine communication, negotiation, decision-making, challenging conversations and behavior, effective feedback and conflict system design. Online, spring semester, open to graduate nursing and law students.

Prerequisites: None

Offered: Every year, Spring

NUR 516. Health Policy and Organizational Systems. 2 Credits.

This course provides an introduction to various social and political policy environments impacting advanced nursing practice and health care systems. Students examine issues that inform health care policy, organization and financing. Nursing's advocacy role in shaping policy in organizational, social and political venues is emphasized.

Prerequisites: None

Offered: Every year, Fall and Summer Online

NUR 517. Anatomy for the Nurse Anesthetist. 2 Credits.

This course emphasizes the fundamentals of anatomy for the cardiac, respiratory and nervous system. Anatomy as it pertains to regional and neuraxial administration is emphasized. Throughout this course, students utilize dissections of specific organs and the use of computer and anatomic models. Airway anatomy is covered extensively through multiple modalities. Renal and hepatic anatomy are reviewed. This course must be taken together with NUR 517L.

Prerequisites: Take NUR 517L.

Offered: Every year, Summer

NUR 517L. Anatomy for the Nurse Anesthetist Lab. 1 Credit.

Lab to accompany NUR 517.

Prerequisites: None

Offered: Every year, Summer

NUR 518. Pathophysiology for the Nurse Anesthetist. 3 Credits.

Essential concepts of pathophysiology are emphasized. Normal function of major systems and selected disorders are studied especially as they relate to care of the patient undergoing anesthesia. The course focuses on disease processes related to major organ systems; neurologic, cardiac, respiratory, renal, hepatic and endocrine. Where appropriate the course includes clinical correlations of disease states with symptoms and physical findings.

Prerequisites: Take PY 501, NUR 517, NUR 517L, NUR 698.

Offered: Every year, Fall

NUR 520. Advanced Health Assessment. 3 Credits.

This course presents the principles of performing a comprehensive health assessment and reporting the findings in a professional format. Attention is given to assessment and physical examination across the lifespan within diverse communities. The processes underlying diagnostic decision making are introduced. A laboratory component enables the student to master the techniques of performing a holistic health assessment.

Prerequisites: Take NUR 522 and NUR 530.

Corequisites: Take NUR 520L.

Offered: Every year, Spring Online

NUR 520L. Advanced Health Assessment Lab. 2 Credits.

This lab must be taken with NUR 520. (2 lab hrs.) An on-ground clinical residency is required.

Corequisites: Take NUR 520.

Offered: Every year, Spring

NUR 522. Advanced Pathophysiology. 3 Credits.

Essential concepts of pathophysiology are emphasized. Selected disorders are studied especially as they relate to homeostatic and defense/repair mechanisms. Where appropriate the course includes clinical correlations of disease states with symptoms and physical findings.

Prerequisites: None

Offered: Every year, Fall Online

NUR 524. Principles of ECG Interpretation. 1 Credit.

This course provides a directed approach to understanding the principles and basic interpretation of electrocardiography as applied in advanced practice nursing. Intended for students in the adult-gerontology and family nurse practitioner tracks.

Prerequisites: None

Offered: Every year, Summer Online

NUR 528. Principles of Radiography. 2 Credits.

The basic principles of radiologic and imaging techniques, recognition of common abnormal findings, indications and contraindications for various tests including cost analysis and availability factors are considered. Intended for students in the adult-gerontology and family nurse practitioner tracks.

Prerequisites: None

Offered: Every year, Summer Online

NUR 530. Advanced Pharmacology. 3 Credits.

Students are introduced to pharmacological management across the lifespan and provided with advanced knowledge of pharmacokinetics. Selected categories of drugs commonly prescribed for management of health care problems and health promotion within diverse communities are presented. Controlled substances and the potential for abuse are discussed. The responsibilities and legalities of prescriptive authority in advanced practice are defined.

Prerequisites: None

Offered: Every year, Fall Online

NUR 538. Applying Data to Practice.**1 Credit.**

This online seminar introduces students to the uses of data in the health care setting. Students learn to interpret data and how to use it to improve patient care outcomes. In addition, they examine electronic data transfer methods and displays that illustrate performance. Finally, students debate the ethical aspects of data access, security and use.

Prerequisites: None**Offered:** Every year, Fall Online**NUR 540. Educational Principles for the Health Care Professional.****3 Credits.**

This course examines the theoretical perspectives of education as it relates to educational leadership and professional development for adult learners. Teaching/learning theories, models and principles are examined as preparation for the design, development, evaluation and revision of professional development-related curricula. Instructional strategies and teaching techniques adapted for diverse populations are explored.

Prerequisites: None**Offered:** Every year, Fall Online**NUR 541. Informatics Fieldwork Experience.****1 Credit.**

This 1-credit practicum provides the opportunity for students to apply essential knowledge and skills in health care informatics. (120 practicum hours)

Prerequisites: None**Offered:** Every year, Summer Online**NUR 542. Introduction to Health Care Finance.****2 Credits.**

This 2-credit online graduate course provides an overview of basic budgeting concepts and processes integral to project planning and project management. Students also are introduced to foundational principles of marketing.

Prerequisites: None**Offered:** Every year, Summer Online**NUR 543. Capstone.****3 Credits.**

This capstone practicum is a culminating experience integrating knowledge and skill learned in other courses into the practice setting. Students complete a synthesis practicum that is an intensive mentored experience in operational leadership in a selected area of interest. (1-credit seminar, 2 credits/240 hours of practicum)

Prerequisites: None**Offered:** Every year, Spring Online**NUR 544. Introduction to Informatics.****3 Credits.**

This online course provides essential knowledge and skills in health care informatics to enhance the quality of patient care and outcomes through the assessment, development, implementation, use and evaluation of information technologies. It prepares the nurse to support evidence-based practice and manage patient-care technologies to deliver and enhance interprofessional care and communication for improved coordination of care. The 1-credit practicum provides the opportunity for students to apply essential knowledge and skills in health care informatics. (120 practicum hours)

Prerequisites: None**Offered:** Every year, Summer Online**NUR 600. Evaluation and Synthesis of Scientific Evidence for Practice.****2 Credits.**

Students review selected processes to identify current best scientific evidence including formulation of asking an answerable question. Students also conduct a review of the literature, critically appraise individual studies, and synthesize the evidence collected. Various methods to evaluate statistical analyses and scientific rigor are emphasized. Discussions focus on strengths and limitations of existing evidence, and application to direct and indirect practice. Iterative writing is a major component of this course.

Prerequisites: None**Offered:** Every year, Fall Online**NUR 602. Principles of Ethical Theory in Nursing.****1 Credit.**

This course facilitates the student's formulation of a theoretical basis for ethical judgment at an advanced level of practice. Students analyze ethical theory and debate responses to ethical problems in advanced nursing practice.

Prerequisites: None**Offered:** Every year**NUR 604. Principles of Aging.****3 Credits.**

This course provides a broad overview of the concepts, issues and approaches related to the theoretical aspects of aging. The application of theories and concepts to practice as well as policy is a major focus of this course and prepares students from different health care disciplines for service in the field of gerontology. Emphasis is given to holistic aspects that are associated with aging and the dynamic interactions between older people and their environmental changes across the lifespan.

Prerequisites: None**Offered:** Every year, Summer**NUR 606. Navigating Telehealth.****3 Credits.**

The course builds a basic knowledge of telehealth and associated technologies for clinical practice. Clinical applications, practice guidelines and standards for telehealth are discussed. Issues surrounding licensure, credentialing, reimbursement and legal/regulatory of those implementing telehealth technologies are explored. Students have telehealth practice experiences in a simulated environment.

Prerequisites: None**Offered:** Every year, Summer**NUR 610. Clinical Scholarship and Inquiry in Nursing.****2 Credits.**

This course focuses on improvement methods used to identify organizational systems' process problems affecting practice (direct and indirect care). Building on prior knowledge of evidence-based practice, students learn how to critically appraise scientific evidence, evaluate additional relevant information, and consider cost implications to create sustainable innovations intended to improve systems.

Prerequisites: Take NUR 600.**Offered:** Every year, Spring Online**NUR 610PBL. DNP Project I.****2 Credits.**

This seminar provides an opportunity for students to identify a health organization or system's opportunity for process improvement based on available aggregate data. Students develop a substantial and meaningful scholarly DNP Project Proposal that is innovative and evidence-based, reflects the application of credible research findings, financially sound, feasible, sustainable and demonstrates value to the organization and population(s) served. There is a minimum of 120 fieldwork hours associated with this course. The course is graded on a pass/fail basis.

Corequisites: Take NUR 610.**Offered:** Every year, Summer Online

NUR 612. Leadership and Collaboration for Change in Health Care. 2 Credits.

This course focuses on developing advanced practice nursing leaders who are able to generate pragmatic responses to health care policy, systems and practice inquiry problems through a collaborative approach.

Prerequisites: Take NUR 610.

Offered: Every year, Fall Online

NUR 612PBL. DNP Project II. 2 Credits.

Students continue experiential learning to create and sustain change through implementation of the approved, scholarly DNP Project Proposal using appropriate leadership concepts, interdisciplinary team collaboration, and change theory. Post-implementation and evaluation of Project outcomes are disseminated to applicable fieldwork site stakeholders, peers in a professional forum, and in a digital repository. There are 120 fieldwork hours associated with this course. This course is graded on a pass/fail basis.

Prerequisites: Take NUR 610, NUR 610PBL.

Offered: Every year, Fall Online

NUR 613. Nursing Leadership Seminar: Applying Data to Practice. 2 Credits.

This online seminar develops students' skills in identifying, critiquing and applying data in health care. Students investigate evidence-based research and how that data is used to improve health system outcomes. In addition, they examine electronic data transfer methods and displays that illustrate performance. Finally, students debate the ethical aspects of data access, security and use.

Prerequisites: None

Offered: Every year, Spring Online

NUR 614PBL. DNP Project Continuation Course. 1 Credit.

This course is for those students who continue to work on their DNP Project in the semester(s) after the conclusion of NUR 612 PBL. Students register for this one credit course every semester until their DNP Projects are completed.

Prerequisites: Take NUR 612PBL.

Offered: Every year, All Online

NUR 615. Nursing Leadership Seminar and Fieldwork Experience: Safety and Legal Contexts of Health Care. 3 Credits.

This two-hour clinical seminar accompanies 120 hours of experiential learning in the field, with an emphasis on safety and legal concepts in health care. Human factors analysis and systemic quality improvement for increased patient and provider safety are discussed.

Prerequisites: Take NUR 613.

Offered: Every year, Fall Online

NUR 617. Nursing Leadership Fellowship: Relationship Management and Strategic Leadership. 3 Credits.

This online course focuses on developing nursing leaders who are able to generate pragmatic responses to health care demands that address the collaborative relationships critical to clinical, educational and organizational success. This course includes 120 hours (1 credit) of experiential learning in the field, with a two-hour online seminar to discuss student experiences and synthesize leadership concepts and skills.

Prerequisites: Take NUR 615.

Offered: Every year, Spring Online

NUR 620. Principles of Population-Based Health Care. 2 Credits.

This course examines policies impacting health across a broad spectrum of health care conditions and settings. Students discuss the contributions of nursing to population health.

Prerequisites: None

Offered: Every year, Spring Online

NUR 621. Post-Master's Additional Graduate Clinical. 0.5-4 Credits.

This course is for those students who need more fieldwork hours to reach the 1,000 hours required for the Doctor of Nursing Practice degree. Objectives are developed with faculty specifically for the work to be done. One credit is equivalent to 120 hours of fieldwork.

Prerequisites: Take NUR 617 or NUR 623.

Offered: Every year, Summer

NUR 622. Population Health: Factors Affecting Specific Populations. 3 Credits.

This seminar allows each student to examine contemporary issues surrounding advanced nursing practice and population health within the context of the individual student's population health focus. There are 120 fieldwork hours associated with this course.

Prerequisites: Take NUR 620.

Offered: Every year, Fall Online

NUR 623. Global Population Health. 3 Credits.

This seminar allows each student to examine population health in the context of a global community. The role of the World Health Organization and the Social Determinants of Health are analyzed. The individual student's population health focus is considered in the context of broader global population issues. There are 120 fieldwork hours associated with this course.

Prerequisites: Take NUR 620, NUR 622.

Offered: Every year, Spring Online

NUR 630. Advanced Holistic Assessment. 3 Credits.

This course expands on assessment across the lifespan with attention to complex systems. The processes underlying diagnostic decision making are explored and a variety of simple office procedures such as suturing and splinting are taught.

Prerequisites: Take NUR 520, NUR 520L.

Corequisites: Take NUR 630L.

Offered: Every year, Spring

NUR 630L. Advanced Holistic Assessment Lab. 2 Credits.

This lab must be taken with NUR 630. (2 lab hrs.)

Prerequisites: Take NUR 520, NUR 520L.

Corequisites: Take NUR 630.

Offered: Every year, Spring

NUR 631. Introduction to Clinical Practicum and Seminar I. 2 Credits.

This course introduces students to clinical practice and includes an online seminar. Students apply advanced health assessment skills to assess patients across the adult lifespan. Students are expected to perform focused and full histories and physicals, formulate differential diagnoses, suggest appropriate laboratory testing, and begin to develop treatment plans. Expectations also include demonstration of presenting patient cases, and appropriate clinical documentation. Students complete 120 hours of clinical time with their preceptor.

Prerequisites: Take NUR 630, NUR 630L.

Offered: Every year, Summer Online

NUR 632. Health Promotion and Advocacy.**3 Credits.**

Health promotion, advocacy and mental health problems encountered in primary care settings are considered. A holistic approach to clients from adolescence to senescence is emphasized. Evidence-based guidelines and research are integrated to develop nursing strategies for health promotion and prevention.

Prerequisites: None**Offered:** Every year, Spring Online**NUR 633. Clinical Simulation.****1 Credit.**

This course is designed to enhance nurse practitioner students' clinical examination and documentation skills. Students participate in individual and group simulated case scenarios and document appropriate notes for faculty review. Discussion of cases in a seminar setting is included. Emphasis is placed on the holistic assessment of individuals and/or families according to their needs. Low faculty-to-student ratios allow for individualized instruction to improve clinical assessment skills and documentation. The course is conducted five hours per day for three days prior to the start of the fall semester.

Prerequisites: Take NUR 643 or NUR 653.**Offered:** Every year, Summer**NUR 634. Reproductive Health Problems in Primary Care.****3 Credits.**

Gender-related problems in primary care across the lifespan are the focus of this course. Selected alternative and complimentary therapies are included.

Prerequisites: None**Offered:** Every year, Summer Online**NUR 636. Common Problems in Primary Care.****3 Credits.**

This course considers diagnoses of common problems encountered in primary care settings. Evidence-based, multidisciplinary management approaches to selected health problems also are discussed. Assessment and management of the selected problems include attention to cultural traditions, alternative treatments and socioeconomic policies that affect the delivery of care. The course is grounded by a holistic approach to care; case studies are used to promote clinical reasoning.

Prerequisites: Take NUR 631.**Offered:** Every year, Fall**NUR 637. Clinical Fellowship.****4 Credits.**

This intensive clinical experience allows for deepened clinical practice in a flexible timeframe. The 240-hour requirement can be completed in six weeks as a full-time practice, or in two- or three-day practice allotments throughout the summer. This course comes at the end of the student's sequence of clinical courses. A clinical seminar prepares students for the national certification exam and future clinical practice. This course is graded on a pass/fail basis.

Prerequisites: Take NUR 647 or NUR 657.**Offered:** Every year, Spring**NUR 638. Laboratory Diagnosis.****2 Credits.**

This course introduces students to selected laboratory tests, including cardiac and pulmonary testing. Students discuss the use and interpretation of diagnostics in a variety of primary care problems. Attention to financial considerations in the selection of diagnostics is emphasized.

Prerequisites: None**Offered:** Every year, Summer Online**NUR 640. Special Topics in Adult and Geriatric Psychopharmacology.****1 Credit.**

The perspective of psychiatric neuroscience addresses the actions and interactions of drugs on the brain, the impact in the central nervous system, and interprets the behavioral consequences of psychiatric medications. Common psychiatric medications seen with adults and geriatric patients in primary care settings are considered. A holistic approach to adult and geriatric patients is emphasized. Evidence-based guidelines and research are integrated to develop nursing strategies for best practices in psychopharmacology.

Prerequisites: Take NUR 647.**Offered:** Every year, Spring**NUR 641. Adult Health Practicum and Seminar I.****3 Credits.**

This course integrates the principles of primary care nursing and includes a mentored practicum with a clinical seminar. Students apply advanced practice skills to manage acute and chronic health problems across the adult lifespan. Appropriate clinical documentation, case presentation and use of web-based clinical resources are emphasized.

Prerequisites: Take NUR 631.**Offered:** Every year, Fall**NUR 642. Complex Problems in Primary Care.****3 Credits.**

This course focuses on selected complex, urgent or less frequently encountered problems of primary care across the lifespan from adolescence to senescence. An opportunity to refine differential diagnosis and management of challenging health concerns in diverse populations is provided by the use of case studies.

Prerequisites: Take NUR 636; and NUR 641 or NUR 651.**Offered:** Every year, Spring**NUR 643. Adult Health Practicum and Seminar II.****3 Credits.**

This course includes a mentored practicum with clinical seminar and provides further opportunity for advanced nursing practice with diverse adult populations. Students refine primary care skills including appropriate documentation, differential diagnosis, case presentation and technology utilization with attention to cost-effective and evidence-based approaches to care.

Prerequisites: Take NUR 641.**Offered:** Every year, Spring**NUR 645. Adult Health Practicum and Seminar III.****3 Credits.**

This course includes a mentored practicum experience of 240 hours and an online seminar. It provides continued opportunity for advanced holistic practice with adults. Seminar prepares students for certification and licensure as adult-gerontology nurse practitioners.

Prerequisites: Take NUR 643**Offered:** Every year, Summer**NUR 647. Adult Health Practicum and Seminar IV.****3 Credits.**

This course includes a mentored clinical practicum with a clinical seminar, and provides continued opportunity for holistic nursing practice with families at an advanced level. Students are expected to manage the process of patient care with increasing confidence, efficiency and accuracy. Cost-effectiveness, evidence-based practice, ethical dilemmas, cultural sensitivity and preparation for entry to licensed practice are emphasized.

Prerequisites: Take NUR 633.**Offered:** Every year, Fall

NUR 650. Special Topics in Family Psychopharmacology. 1 Credit.

The perspective of psychiatric neuroscience addresses the actions and interactions of drugs on the brain, the impact in the central nervous system, and interprets the behavioral consequences of psychiatric medicines. Common psychiatric medications seen with patients across the lifespan in primary care settings are considered. A holistic approach to patients across the lifespan is emphasized. Evidence-based guidelines and research are integrated to develop nursing strategies for best practices in psychopharmacology.

Prerequisites: Take NUR 657.

Offered: Every year, Spring

NUR 651. Family Health Practicum and Seminar I. 3 Credits.

This course includes a mentored practicum experience and a clinical seminar. Health promotion and assessment of health problems within family systems are emphasized. Students learn primary care skills including appropriate documentation, differential diagnosis, case presentation and technology utilization with attention to cost-effective and evidence-based approaches to care. Students complete 240 hours in direct patient care.

Prerequisites: Take NUR 631.

Offered: Every year, Fall

NUR 652. Primary Care of the Child and Family I. 3 Credits.

This course focuses on health care of the child within the family system. Comprehensive assessment and management of common pediatric health problems encountered in primary care settings are addressed.

Prerequisites: Take NUR 631.

Offered: Every year, Fall Online

NUR 653. Family Health Practicum and Seminar II. 3 Credits.

This course includes a mentored practicum experience of 120 hours and a weekly clinical seminar. It provides an opportunity for nursing practice with families at an advanced level. Comprehensive assessment, clinical decision-making and strategies to facilitate health promotion and health restoration of individuals within family systems are emphasized.

Prerequisites: Take NUR 651 and NUR 652

Offered: Every year, Spring

NUR 654. Primary Care of the Child and Family II. 3 Credits.

This course continues the focus on health care of the child within the family system. Primary care management is emphasized.

Prerequisites: Take NUR 651, NUR 652.

Offered: Every year, Spring Online

NUR 655. Family Health Practicum and Seminar III. 3 Credits.

This course includes a mentored practicum experience of 240 hours and an online seminar. It provides continued opportunity for advanced holistic practice with families. Seminar prepares students for certification and licensure as family nurse practitioners.

Prerequisites: Take NUR 653.

Offered: Every year, Summer

NUR 656. Pediatric Assessment. 1 Credit.

This course discusses holistic health assessment of newborns, infants, children and adolescents. Assessment of normal growth and development is presented, as is assessment of common pediatric primary care problems.

Prerequisites: None

Offered: Every year, Spring Online

NUR 657. Family Health Practicum and Seminar IV. 3 Credits.

This course includes a mentored practicum experience of 120 hours and a weekly clinical seminar. Students are expected to manage the process of patient care with increasing confidence, efficiency and accuracy. Cost-effectiveness, evidence-based practice, ethical dilemmas, cultural sensitivity and preparation for entry to licensed practice are emphasized.

Prerequisites: Take NUR 633.

Offered: Every year, Fall

NUR 660. Advanced Specialty Diagnostics & Assessment I. 3 Credits.

This course provides an overview of diagnostic tools, procedures, and exams in the assessment, diagnosing, and treating of individuals with illness. This course will be delivered in a hybrid format, with students completing online content relevant to their nurse practitioner speciality as an on-ground clinical residency where the emphasis will be on competence in a variety of procedures and techniques specific to the speciality role. The emphasis is not only on learning skills, but also on the appropriate use of these skills in a healing context.

Prerequisites: Take NUR 520, NUR 520L, NUR 530 and NUR 522

Offered: Every year, Summer

NUR 661. Introduction to Acute Care Clinical Practicum and Seminar. 3 Credits.

This course provides a theoretical and practical framework for the practice of an acute care nurse practitioner caring for the adult and geriatric populations with acute and chronic complex problems. Students learn to apply diagnostic reasoning skills and critical thinking. Students complete 150 clinical hours in acute care settings where they demonstrate the ability to provide evidence-based care. An accompanying online clinical conference allows students to discuss the scope of an acute care nurse practitioner as well as management of acute care illnesses.

Prerequisites: Take NUR 520, NUR 520L, NUR 530 and NUR 522

Offered: Every year, Summer

NUR 662. Advanced AGACNP Pharmacology. 2 Credits.

This course builds upon the previous advanced pharmacology course and specifically discusses medications used in the inpatient setting. Students learn the use of medications, their interactions and polypharmacy issues that are specific to the acute care setting.

Prerequisites: None

Offered: Every year, Summer Online

NUR 663. Acute Care Practicum & Seminar I. 3 Credits.

Emphasis in this first of three clinical courses is to use diagnostic reasoning, critical thinking, and patient analysis to focus on assessment, identifying differential diagnoses, and managing acutely or critically ill individuals using clinical practice guidelines. Students complete 240 direct care clinical hours in the inpatient acute or critical care setting. In addition to clinical hours, students engage in a one hour weekly clinical conference to present patient problems including a holistic approach to patient needs, differential diagnoses and specific clinical issues.

Prerequisites: Take NUR 660 NUR 661 NUR 661 and NUR 662

Corequisites: Take NUR 664

Offered: Every year, Fall

NUR 664. Common Problems in Acute Care.**3 Credits.**

The first of three courses regarding common problems in acute care will focus on the pathophysiology and management of common acute and critical illnesses in individuals. Evidence-based, multidisciplinary management approaches to selected health problems are discussed. The course is grounded by a holistic approach to care; case studies are used to promote clinical reasoning. Topics include acid/base balance and fluid/electrolyte issues, cardiovascular, respiratory, and renal disease.

Prerequisites: Take NUR 660 NUR 661 and NUR 662**Offered:** Every year, Fall Online**NUR 665. Acute Care Practicum & Seminar II.****3 Credits.**

In the second of three clinical courses, students will continue to progress using the knowledge learned in previous courses to begin building safe and effective evidence-based plans of care. Students complete 240 direct care clinical hours in the inpatient acute or critical care setting. Emphasis in this course is not only on refining assessment, differential diagnoses and management, but also building case load. Weekly one hour clinical conferences focus on presenting cases, discussing holistic approaches to critical care and refining differential diagnoses and treatment plans.

Prerequisites: Take NUR 663**Corequisites:** Take NUR 666**Offered:** Every year, Spring**NUR 666. Common Problems in Acute Care II.****3 Credits.**

The second of three courses regarding common problems in acute care will focus on the pathophysiology and management of common acute and critical illnesses in individuals. An opportunity to refine differential diagnosis and management of challenging health concerns in diverse populations is provided by the use of case studies. Topics include trauma, shock, endocrine, GI, Infectious disease, and musculoskeletal issues. The course is grounded by a holistic approach to care.

Prerequisites: Take NUR 664**Offered:** Every year, Spring Online**NUR 667. Acute Care Practicum & Seminar III.****3 Credits.**

The final of three clinical courses requires students to use all of the foundational skills learned in previous courses to provide evidence-based care to promote healing in an increasing and varied case load of acute or critically ill patients. Students will build complete plans of care using the theoretical and clinical knowledge from other courses. Weekly clinical conferences serve to provide students opportunities to discuss challenging acute and critical care issues as well as provide opportunities to present data in a team like setting. 150 hours of clinical practice are required.

Prerequisites: Take NUR 665 and NUR 668**Corequisites:** Take NUR 668**Offered:** Every year, Summer**NUR 668. Common Problems in Acute Care III.****3 Credits.**

The third and final of three courses regarding common problems in acute care will focus on more complex illnesses, their pathophysiology and management. Topics include neurology, oncology, integumentary, hepatic, hematology, psychological and cognitive health disorders, and multi-system disorders. Learning is enhanced using case studies. The course is grounded by a holistic approach to care.

Prerequisites: Take NUR 666**Offered:** Every year, Summer Online**NUR 669. Advanced Specialty Diagnostics & Assessment II.** **2 Credits.**

This course provides an overview of advanced diagnostic tools, procedures, and exams in the assessment, diagnosing, and treating of individuals with illness. This course will be delivered in a hybrid format, with students completing online content as well as an on-ground clinical residency where the emphasis will be on competence in more advanced procedures and techniques specific to the acute care nurse practitioner role. The emphasis is not only on learning skills and techniques, but also on the appropriate use of these skills in a healing context.

Prerequisites: Take NUR 660.**Offered:** Every year, Spring**NUR 670. Basic Principles of Anesthesia II.****3 Credits.**

This course continues the basic principles of anesthesia and covers a variety of basic concepts including pre-operative assessment, basic airway management, the function and operation of the anesthesia ventilator and introduction to intra-operative anesthetic care. Concepts related to pain management including opioid sparing techniques are introduced. Simulation lab practices are included.

Prerequisites: Take NUR 696.**Offered:** Every year, Spring**NUR 670L. Basic Principles of Anesthesia II Lab.****2 Credits.**

This course introduces the student to the administration of neuraxial regional anesthesia and peripheral nerve blocks using ultrasound, simulation and cadaver models. Simulation lab practice related to anesthesia set up and simple inductions of anesthesia are included.

Prerequisites: Take NUR 696.**Corequisites:** Take NUR 670.**Offered:** Every year, Spring**NUR 671. Clinical Practicum I.****2 Credits.**

Individual clinical practice arranged with approved clinical sites. All-day clinical practice, 3 days per week. The student follows the hours of CRNA practice at each clinical site. A clinical conference is held once per week.

Prerequisites: Take NUR 696, NUR 670, NUR 670L, NUR 672.**Offered:** Every year, Summer**NUR 672. Advanced Pharmacology II.****3 Credits.**

This course is a continuation of Advanced Pharmacology and Basic Principles of Anesthesia I (NUR 696) and expands on the administration of drugs used in the practice of anesthesia. Drugs used in the treatment of comorbid conditions and their effects on anesthesia are covered.

Prerequisites: Take NUR 696.**Corequisites:** Take NUR 670, NUR 670L.**Offered:** Every year, Spring**NUR 673. Clinical Practicum II.****2 Credits.**

Individual clinical practice is arranged with approved clinical sites. All-day clinical practice continues four days per week. The student follows the hours of CRNA practice at each clinical site. A clinical conference is held once per week.

Prerequisites: Take NUR 671.**Offered:** Every year, Fall**NUR 674. Professional Aspects of Nurse Anesthesia Practice I.** **1 Credit.**

This course discusses the history of the profession and practice issues that pertain to the nurse anesthesia practice. Topics include legal aspects, scope of practice, the national association and the structure, quality assurance and the business of anesthesia. Students explore their role in the political arena through attendance at the AANA Midyear Assembly in Washington, D.C.

Prerequisites: None**Offered:** Every year, Spring

- NUR 675. Clinical Practicum III. 2 Credits.**
Individual clinical practice is arranged with approved clinical sites four days per week. Students participate in full-day clinical practice, and follow the hours of CRNA practice at each clinical site. A call component may be included in the semester. A clinical conference is held once per week.
Prerequisites: Take NUR 673.
Offered: Every year, Fall
- NUR 676. Professional Aspects of Nurse Anesthesia Practice II. 1 Credit.**
The class covers the importance of personal wellness and stress management for the nurse anesthesia student and the practicing CRNA. Students become familiar with integrated therapies and behaviors used to create wellness and balance. Multiple factors related to chemical dependence and substance abuse are studied. Participants also discuss the importance of cultural sensitivity and diversity in health care.
Prerequisites: None
Offered: Every year, Fall
- NUR 677. Clinical Practicum IV. 2 Credits.**
Individual clinical practice is arranged with the approved clinical sites. All-day clinical practice continues four days per week. The student follows the hours of CRNA practice at each clinical site. A call component may be included in the semester. A clinical conference is held once a week.
Prerequisites: Take NUR 675.
Offered: Every year, Spring
- NUR 678. Professional Aspects of Nurse Anesthesia Practice III. 1 Credit.**
This course discusses educational leadership as it pertains to clinical preceptors and educators. Topics include the writing of objectives, evaluations and rubrics and the role of the clinical educator. Additionally, students teach assigned topics to underclass students.
Prerequisites: Take NUR 674, NUR 676.
Offered: Every year, Spring
- NUR 679. Clinical Practicum V. 2 Credits.**
Individual clinical practice is arranged with approved clinical sites. All-day clinical practice continues four days per week. The student follows the hours of CRNA practice at each clinical site. A call component may be included in the semester. A clinical conference is held once a week.
Prerequisites: Take NUR 677.
Offered: Every year, Fall
- NUR 680. Physics, Chemistry, Equipment and Technology for Nurse Anesthetists. 4 Credits.**
This course includes an extensive study of key concepts pertaining to organic, biochemistry and physics as they relate to anesthesia. Topics include medical mathematics and conversion factors, the gas laws, biochemistry of fluids and electrolytes, acid-base and buffers systems, electrical circuits, reviews of organic chemistry including the functional groups and physical principles that are relevant. Equipment and technology used in anesthetic practice also are studied in this course.
Prerequisites: Take NUR 696, NUR 670, NUR 672.
Offered: Every year, Summer
- NUR 681. Clinical Practicum VI. 2 Credits.**
Individual clinical practice is arranged with approved clinical sites. All-day clinical practice continues four days per week. The student follows the hours of CRNA practice at each clinical site. A call component may be included in the semester. A clinical conference is held once a week.
Prerequisites: Take NUR 679.
Offered: Every year, Fall
- NUR 682. Advanced Principles of Anesthesia I. 3 Credits.**
This course covers the administration and management of anesthesia to patients undergoing procedures in a variety of specialties such as ENT, orthopedics, neurosurgery and trauma. Advanced anesthetic management of common/uncommon conditions are included.
Prerequisites: Take NUR 696, NUR 670, NUR 670L, NUR 672.
Offered: Every year, Summer
- NUR 683. Clinical Practicum VII. 2 Credits.**
This course is a continuation of the advanced clinical practicum. A clinical conference is held each week. Students present their scholarly projects at an assembly at the end of the semester.
Prerequisites: Take NUR 681.
Offered: Every year, Spring
- NUR 684. Advanced Principles of Anesthesia II. 3 Credits.**
This course covers the fundamental concepts essential to clinical anesthesia practice pertaining to obstetrics and pediatrics.
Prerequisites: Take NUR 682.
Offered: Every year, Fall
- NUR 685. Clinical Practicum for Post-Master's I. 1 Credit.**
This is the first of the clinical components of the nurse anesthesia doctoral program for post-master's CRNAs. Students select a specific topic in their chosen area of clinical focus. Clinical exploration of the selected topic is done with the guidance of their adviser. The student selects studies and readings to support the selected topic.
Prerequisites: None
Offered: Every year, Fall Online
- NUR 686. Advanced Principles of Anesthesia III. 3 Credits.**
The anesthetic assessment and management of patients with vascular and cardiac disease are covered in this course. Open and closed thoracic and cardiac surgery is studied along with the anesthetic implications and considerations. Students explore the perfusionist role during cardiac procedures. Cardiac implants and internal defibrillators are discussed.
Prerequisites: Take NUR 682, NUR 684.
Offered: Every year, Spring
- NUR 687. Clinical Practicum for Post-Master's II. 1 Credit.**
This is the second of the clinical components of the nurse anesthesia doctoral program for post-master's CRNAs. The students continue to work on their area of focus in the clinical arena. Clinical exploration and the formulation of an abstract and bibliography of this selected topic are done with guidance of their adviser.
Prerequisites: None
Offered: Every year, Spring Online
- NUR 688. Human Factors and Patient Safety. 3 Credits.**
This course examines issues related to human error and patient safety with an emphasis on crisis management. Students explore the theoretical basis of human error, patient safety and quality assurance in health care. This course introduces a systems approach to error investigation and analysis, and integrates concepts of teamwork, crisis management, simulation and monitoring systems in medical practice.
Prerequisites: None
Offered: Every year
- NUR 689. Clinical Practicum/Patient Safety Seminar for Post-Master's III. 2 Credits.**
The students continue to work on their area of focus in the clinical arena. The students complete the rough draft of their work during this semester. Each student analyzes an anesthesia-related critical event by presenting a Journal Club and discussion.
Prerequisites: Take NUR 685, NUR 687, NUR 688.
Offered: Every year, Summer Online

NUR 690. Advanced Principles of Anesthesia IV. 2 Credits.

This course contains an extensive study of the anesthetic management for patients with respiratory, renal, hepatic and endocrine disease.

Prerequisites: Take NUR 686.

Offered: Every year, Summer

NUR 691. Clinical Practicum/Patient Safety Seminar for Post-Master's IV. 2 Credits.

This is the fourth of the clinical components of the nurse anesthesia doctoral program. Students complete their projects and submit for possible publication. The accompanying seminar focuses on areas in patient safety.

Prerequisites: Take NUR 689.

Offered: Fall Online

NUR 692. Clinical Case Study Presentation. 1 Credit.

This course gives the students an opportunity to present clinical case study. Peer review and faculty review are used for assessment.

Prerequisites: None

Offered: Every year, Spring

NUR 695. Anesthesia Seminar I. 2 Credits.

This course prepares the student to take the Self-Evaluation Exam (SEE) in preparation for the National Certification Exam (NCE). The Seminar course contain an extensive review of Basic Principles, Equipment and Technology, Basic and Advanced Principles, Pharmacology and Physiology. Practice exams are administered periodically and clinical scenarios are used to assess and challenge student knowledge and critical thinking. Students take the SEE (Self Evaluation Examination) exam at the end of this semester.

Prerequisites: Completion of all anesthesia core courses.

Offered: Every year, Fall

NUR 696. Advanced Pharmacology and Basic Principles of Anesthesia I. 4 Credits.

This course contains essential pharmacology for the anesthesia provider along with a variety of basic concepts such as surgical positioning, monitoring of patients undergoing anesthesia, the anesthesia machine and basic airway management. Lectures are held in the classroom and in the Skills and Simulation lab.

Prerequisites: Completion of NUR 517 PY 501.

Offered: Every year, Fall

NUR 697. Anesthesia Seminar II. 2 Credits.

This course is the second Anesthesia Seminar which prepares the student to take the National Certification Exam (NCE). Students continue to take the SEE (Self Evaluation Examination) until a benchmark score is obtained. Organized and systematic review of materials from key anesthesia courses is continued. Students formulate a written plan of study for use during this semester. Each student reviews and implements the individualized plan with input from the adviser.

Prerequisites: Completion of all anesthesia core courses and NUR 695.

Offered: Every year, Spring

NUR 698. Human Physiology Seminar. 1 Credit.

Students are provided with a topic in human physiology for presentation to the group. The topic is selected from one of the systems studied in the Human Physiology course. This provides the student with an opportunity to work in a small group, improve their public speaking skills and gather valuable material from other presenters.

Corequisites: Take PY 501.

Offered: Every year, Summer

NUR 699. Independent Study. 1-6 Credits.

Prerequisites: None

Offered: As needed

NUR 702. Psychopharmacology. 2 Credits.

This course builds upon the previous advanced pharmacology course and specifically discusses medications used in psychiatry and mental health care. Students learn the use of medications, their interactions and polypharmacy issues that are specific to psychiatry and mental health.

Prerequisite: NUR 530

Prerequisites: Take NUR 530

Offered: Every year, Fall

NUR 704. Psychotherapy. 3 Credits.

This course introduces students to techniques used in psychotherapy with patients across the lifespan. Individual, group, and family psychotherapy techniques are demonstrated and applied in simulated scenarios. Students learn to use psychotherapy in the management of acute and chronic mental health illness as part of holistic care.

Prerequisites: Take NUR 522 NUR 530

Offered: Every year, Fall

NUR 705. Introduction to Psychiatric Mental Health. 3 Credits.

This course provides a theoretical and practical framework for the practice of a psychiatric mental health nurse practitioner caring for patients with mental health problems across the lifespan. Students learn to apply diagnostic reasoning skills and critical thinking. Students complete 150 clinical hours (1.25 credits) in psychiatric/mental health settings where they demonstrate the ability to provide evidence-based care. An accompanying online clinical conference allows students to discuss the scope of a psychiatric/mental health nurse practitioner as well as management of psychiatric/mental health illnesses. Prereq: NUR 520, 520L, 530, 522.

Prerequisites: Take NUR 520 NUR 520L NUR 530 NUR 522

Offered: Every year, Fall

NUR 706. Common Problems in Psychiatry and Mental. 3 Credits.

The first of two courses regarding common problems in psychiatry and mental health will focus on the psychopathology and management of common mental health illnesses across the adult lifespan. Evidence-based, multidisciplinary management approaches to selected health problems are discussed. The course is grounded by a holistic approach to care; case studies are used to promote clinical reasoning. Prerequisites: NUR 660, 702, 704, 705.

Prerequisites: Take NUR 660 NUR 702 NUR 704 NUR 705

Offered: Every year, Fall

NUR 707. Psychiatric Mental Health Practicum. 3 Credits.

Emphasis in this first of three clinical courses is to use diagnostic reasoning, critical thinking, and patient analysis to focus on assessment, identifying differential diagnoses, and managing acute and chronic mental health illnesses in individuals using clinical practice guidelines. Students complete 240 direct care clinical hours in the psychiatric/mental health care setting. In addition to clinical hours, students engage in a one hour weekly clinical conference to present patient problems including a holistic approach to patient needs, differential diagnoses and specific clinical issues. Prereq: NUR 660, 702, 704, 705.

Prerequisites: Take NUR 660 NUR 702 NUR 704 NUR 705

Offered: Every year, Fall

NUR 708. Psychiatric Mental Health for the Child. 3 Credits.

This course focuses on providing mental health care to children and families. Strategies to assess wellness and illness in children and families will be discussed along with psychotherapy techniques and appropriate psychopharmacology. Students will design evidence-based care plans for children with mental health needs. The course is grounded by a holistic approach to care. Prereq: NUR 702 and 704.

Prerequisites: Take NUR 702 NUR 704

Offered: Every year, Fall

NUR 709. Psychiatric Mental Health Practicum. 3 Credits.

In the second of three clinical courses, students will continue to progress using the knowledge learned in previous courses to begin building safe and effective evidence-based plans of care. They will complete 240 direct care clinical hours in the psychiatric/mental health care setting. Emphasis in this course is not only on refining assessment, differential diagnoses and management, but also building case load. Weekly one hour clinical conferences focus on presenting cases, discussing holistic approaches to mental health care and refining differential diagnoses and treatment plans. Prereq: NUR 706, 707.

Prerequisites: Take NUR 706 NUR 707

Offered: Every year, Fall

NUR 710. Common Problems in Psychiatry/Mental Hea. 3 Credits.

The second course regarding common problems in mental care will continue to focus on the psychopathology and management of common but more complex mental health illnesses in individuals. Students will have an opportunity to refine differential diagnosis and management of challenging mental health concerns in diverse populations through the use of case studies. The course is grounded by a holistic approach to care. Prereq: NUR 706.

Prerequisites: Take NUR 706

Offered: Every year, Fall

NUR 711. Psychiatric/Mental Health Prac. 3 Credits.

The final of three clinical courses requires students to use all of the foundational skills learned in previous courses to provide evidence-based care to promote healing in an increasing and varied case load in mental health care of acute or chronically ill patients. Students will build plans of care using the theoretical and clinical knowledge from other courses. Weekly clinical conferences serve to provide students opportunities to discuss challenging acute and chronic mental health care issues as well as provide opportunities to present data in a team like setting. Students complete 150 hours in direct patient care. Prereq: NUR 669, 709, 710.

Prerequisites: Take NUR 669 NUR 709 NUR 710

Offered: Every year, Fall

NUR 712. Psychiatric Mental Health for Select Pop. 3 Credits.

This course focuses on providing mental health care to select populations such as veterans, childbearing families, LGBTQI, older adults, as well as other vulnerable groups. Strategies to assess wellness and illness in these populations will be discussed along with psychotherapy techniques and appropriate psychopharmacology. Students will design evidence-based care plans for the mental health needs in special populations. The course is grounded by a holistic approach to care. Prereq: NUR 710.

Prerequisites: Take NUR 710

Offered: Every year, Fall

NUR 800. Evaluation and Synthesis of Scientific Evidence for Practice. 2 Credits.

Students review selected processes to identify current best scientific evidence including formulation of asking an answerable question. Students also conduct a review of the literature, critically appraise individual studies, and synthesize the evidence collected. Various methods to evaluate statistical analyses and scientific rigor are emphasized. Discussions focus on strengths and limitations of existing evidence, and application to direct and indirect practice. Iterative writing is a major component of this course.

Prerequisites: None

Offered: Every year, Fall Online

NUR 810. Clinical Scholarship and Inquiry in Nursing. 2 Credits.

This course focuses on improvement methods used to identify organizational systems' process problems affecting practice (direct and indirect care). Building on prior knowledge of evidence-based practice, students learn how to critically appraise scientific evidence, evaluate additional relevant information, and consider cost implications to create sustainable innovations intended to improve systems.

Prerequisites: Take NUR 600.

Offered: Every year, Spring Online

NUR 810PBL. DNP Project I. 2 Credits.

This seminar provides an opportunity for students to identify a health organization or system's opportunity for process improvement based on available aggregate data. Students develop a substantial and meaningful scholarly DNP Project Proposal that is innovative and evidence-based, reflects the application of credible research findings, financially sound, feasible, sustainable and demonstrates value to the organization and population(s) served. There is a minimum of 120 fieldwork hours associated with this course. The course is graded on a pass/fail basis.

Prerequisites: Take NUR 610.

Offered: Every year, Summer Online

NUR 812. Leadership and Collaboration for Change in Health Care. 2 Credits.

This course focuses on developing advanced practice nursing leaders who are able to generate pragmatic responses to health care policy, systems and practice inquiry problems through a collaborative approach.

Prerequisites: Take NUR 610.

Offered: Every year, Summer Online

NUR 812PBL. DNP Project II. 2 Credits.

Students continue experiential learning to create and sustain change through implementation of the approved, scholarly DNP Project Proposal using appropriate leadership concepts, interdisciplinary team collaboration, and change theory. Post-implementation and evaluation of Project outcomes are disseminated to applicable fieldwork site stakeholders, peers in a professional forum, and in a digital repository. There are 120 fieldwork hours associated with this course. This course is graded on a pass/fail basis.

Prerequisites: Take NUR 610, NUR 610PBL.

Offered: Every year, Fall Online

NUR 813. Nursing Leadership Seminar: Applying Data to Practice. 2 Credits.

This online seminar develops students' skills in identifying, critiquing and applying data in health care. Students investigate evidence-based research and how that data is used to improve health system outcomes. In addition, they examine electronic data transfer methods and displays that illustrate performance. Finally, students debate the ethical aspects of data access, security and use.

Prerequisites: None

Offered: Every year, Spring Online

NUR 815. Nursing Leadership Seminar and Fieldwork Experience: Safety and Legal Contexts of Health Care. 3 Credits.

This two-hour clinical seminar accompanies 120 hours of experiential learning in the field, with an emphasis on safety and legal concepts in health care. Human factors analysis and systemic quality improvement for increased patient and provider safety are discussed.

Prerequisites: Take NUR 613.

Offered: Every year, Fall Online

NUR 817. Nursing Leadership Fellowship: Relationship Management and Strategic Leadership. 3 Credits.

This online course focuses on developing nursing leaders who are able to generate pragmatic responses to health care demands that address the collaborative relationships critical to clinical, educational and organizational success. This course includes 120 hours (1 credit) of experiential learning in the field, with a two-hour online seminar to discuss student experiences and synthesize leadership concepts and skills.

Prerequisites: Take NUR 615.

Offered: Every year, Spring Online

NUR 820. Principles of Population-Based Health Care. 2 Credits.

This course examines policies impacting health across a broad spectrum of health care conditions and settings. Students discuss the contributions of nursing to population health.

Prerequisites: None

Offered: Every year, Spring Online

NUR 821. Post-Master's Additional Graduate Clinical. 1-4 Credits.

This course is for those students who need more fieldwork hours to reach the 1,000 hours required for the Doctor of Nursing Practice degree. Objectives are developed with faculty specifically for the work to be done. One credit is equivalent to 120 hours of fieldwork.

Prerequisites: Take NUR 617 or NUR 623.

Offered: Every year, Summer

NUR 822. Population Health: Factors Affecting Specific Populations. 3 Credits.

This seminar allows each student to examine contemporary issues surrounding advanced nursing practice and population health within the context of the individual student's population health focus. There are 120 fieldwork hours associated with this course.

Prerequisites: Take NUR 620.

Offered: Every year, Fall Online

NUR 823. Global Population Health. 3 Credits.

This seminar allows each student to examine population health in the context of a global community. The role of the World Health Organization and the Social Determinants of Health are analyzed. The individual student's population health focus is considered in the context of broader global population issues. There are 120 fieldwork hours associated with this course.

Prerequisites: Take NUR 620, NUR 622.

Offered: Every year, Spring Online