School of Nursing

http://www.odu.edu/nursing
1881 University Drive, Virginia Beach Higher Education Center
757-683-4298
Suzanne Wright, Chair
Carolyn Rutledge, Associate Chair for Graduate Programs

Graduate Nursing Programs

The School of Nursing offers graduate programs leading to the Master of Science in Nursing (M.S.N) and the Doctor of Nursing Practice (D.N.P). All graduate nursing programs are offered in a hybrid online and on-campus format with the exception of Nurse Anesthesia. Graduate nursing programs are designed to prepare graduates with expertise in theory, research, and advanced nursing practice. Through academic courses and clinical experiences, graduate students are prepared to meet the present nationwide demand for nurses in advanced practice, leadership and education. The graduate nursing program is fully accredited by the Commission on Collegiate Nursing Education.

Students in the program may specialize in a variety of roles. All specialties emphasize development of the nursing role through advanced theory and research. The program strives to instill in its graduates leadership responsibility, professional commitment, and a holistic approach to health and nursing care.

The number of credits required for the Master of Science in Nursing degree varies and reflects specific courses and practicum requirements necessary for certification in a specialty area of professional nursing practice. Tracks in the MSN program are designed for completion in five consecutive semesters following a full-time schedule; a part-time curriculum schedule is available for selected tracks upon request.

Six credits of course work, incorporated into the MSN core, represent content common to both the MSN and DNP degrees. Completion of these credits also count toward degree requirements for the DNP. Upon admission to the program, MSN students will be asked to indicate their intent of whether or not to continue their studies to earn the DNP.

Refer to the School of Nursing website at www.odu.edu/nursing for program specific course schedules.

Program Application Deadlines

Master of Science in Nursing

Nurse Practitioner
- Family Nurse Practitioner - March 1
- Neonatal Nurse Practitioner - Completed applications will be reviewed prior to June 1 for full enrollment.
- Pediatric Nurse Practitioner - March 1
- Psychiatric Mental Health Nurse Practitioner - April 15

Clinical Nurse Specialist - Completed applications will be reviewed prior to June 1 for fall enrollment for:
- Adult Gerontology Clinical Nurse Specialist/Educator
- Neonatal Clinical Nurse Specialist
- Pediatric Clinical Nurse Specialist

Nurse Midwifery - April 1

Doctor of Nursing Practice

Post-Master's Doctor of Nursing Practice (Advanced Practice Track) - September 1
Post-Master's Doctor of Nursing Practice (Nurse Executive Track) - September 1
Post-Master's Doctor of Nursing Practice (Psychiatric Mental Health NP Track) - September 1
Nurse Anesthesia - September 15

Admission Requirements for the MSN Graduate Program

In addition to meeting University requirements, applicants must meet the admission criteria below.

*Note: Some MSN tracks may have additional requirements. See program description for more information.

1. Current, unencumbered license as a registered nurse (RN), and preferred 1 year of current experience in the role.
2. Must have completed an undergraduate physical/health assessment course and an undergraduate statistics or research course as confirmed by an official college transcript. Applicants who have not completed these pre-requisites prior to the application deadline will not be reviewed for admission.
3. Baccalaureate degree in nursing or related science field from a regionally accredited college or university with a minimum of a 3.0 grade point average.
4. Three letters of recommendation, with at least one from a former faculty member and at least one from a former employer while in the RN role.
5. A 500-700 word essay that addresses the applicant's goals and reasons for seeking certification as an advance practice nurse.
6. At least one year of recent clinical nursing practice experience is preferred, but not required. See any specific program requirements.

MSN Degree Requirements

In addition to general University requirements, the following apply to candidates for the Master of Science in Nursing degree:

1. Only degree-seeking students may take graduate MSN nursing courses.
2. Full-time study only for PMHNP and Midwifery. Full and part time options are available for CNS, PNP, FNP and NNP. Contact the graduate nursing office regarding study options for each program at (757) 683-4298 or the program director for the specific role.
3. A comprehensive portfolio evaluation covering the program of study will be required for MSN students not electing to complete a thesis.
4. The student must make arrangements three months in advance to take a nursing course with a laboratory or practicum component to assure appropriate and available placement for the learning experience. Arrangements are made through the School of Nursing Student Clinical Services Coordinator.
5. The B grade (3.00) is the minimal acceptable grade for all courses with a NURS prefix or any course required for the degree for continuation in the master’s program. Satisfactory performance in the laboratory or practicum component of a nursing course is required. Students achieving less than a B grade (3.00) in a nursing course may request an opportunity from the role program director to repeat the course once. Two course failures will result in termination from the nursing program. Students may not progress with an incomplete in prerequisite courses as listed in the curriculum plan.

Additional requirements include physical exams, CPR certification, immunization requirements, computer competencies and technical standards, background checks and urine drug screening.

Master of Science in Nursing – Core Courses

Tracks in the MSN programs share a set of core courses that meet nursing accreditation and state approval guidelines for the degree. Regardless of the role concentration, all MSN students are required to complete the following 21 credits* of core courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 709</td>
<td>Evidence-Based Research and Theories for Nursing Practice</td>
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</tr>
<tr>
<td>NURS 715</td>
<td>Ethical Concepts of Advanced Practice Nursing</td>
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</table>

School of Nursing
NURS 761 Pharmacology for Advanced Practice Nursing 3
NURS 770 Pathophysiology for Advanced Nursing Practice 3
NURS 771 Physical Assessment for Advanced Nursing Practice 3
NURS 800 Introduction to Healthcare Disparities, Vulnerable Populations, and Epidemiology 3
NURS 802 The Business of Advanced Nursing Practice 3

Total Hours 21

* These courses count toward the DNP.

Transfers Between MSN Programs
Students may not transfer between programs in the MSN. Any student wishing to change programs must apply to a new program for admission during the regularly scheduled application process and deadline for the program. Their applications will be considered and reviewed as a new admission with the entire application pool.

Progression to the DNP
MSN students wishing to pursue a DNP must declare their intent on admission and no later than the end of their first semester in the MSN program. If pursuing the DNP Advanced Practice program, NURS 805 and NURS 865 are taken in the final semester of the MSN program. Any student who has completed their MSN and did not declare their intent to pursue the DNP must apply and be considered with all post masters applicants as a new admission to the DNP program.

Transfer Credit Evaluation Policy
Any transfer credit requests must be submitted to the concentration program director within two weeks of notification of admission to the program. Once coursework has commenced for your program of study, all coursework must be completed at Old Dominion University, and no further transfer credits will be awarded.

Master of Science in Nursing – Family Nurse Practitioner Role
Karen Higgins, Program Director

The family nurse practitioner (FNP) role prepares graduate students to provide a full range of primary care services to individuals and families throughout the life span. In collaboration with other health care professionals, graduate students provide health promotion, health maintenance and restorative care to well, at-risk, and chronically ill patients and their families. Student clinical experiences are provided in a variety of primary care settings. Successful completion of the program qualifies students to register for the examination for certification as a family nurse practitioner. The MSN - Family Nurse Practitioner is offered in an online format.

Family Nurse Practitioner Curriculum
In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the FNP/MSN for a program total of 49 credits.

Each semester in the program students are assessed a non-refundable program fee of $450 to be paid in addition to tuition. The fee covers a variety of program-related expenses outside of tuition and books.

MSN Core Courses

NURS 721 Aging in the 21st Century 3
NURS 760 Advanced Family Nursing I Practicum 3
NURS 762 Advanced Family Nursing I: Management of Acute Illnesses 3
NURS 763 Health Promotion and Maintenance 2
NURS 764 Advanced Family Nursing II Practicum 4
NURS 765 Advanced Family Nursing II: Management of Chronic Illnesses 3
NURS 766 Primary Care Approaches for Women 3
NURS 767 Advanced Family Nursing III Practicum 3

Total Hours 49

Masters of Science in Nursing - Pediatric Nurse Practitioner Role
Diana Cartagena, Program Director

The pediatric nurse practitioner (PNP) role prepares graduate students to provide a full range of services to pediatric patients in primary care settings. In collaboration with other health care professionals, graduate students provide health promotion, health maintenance and restorative care to well, at-risk, and chronically ill pediatric patients and their families.

Student clinical experiences are provided in a variety of primary care settings for students pursuing the primary care pediatric role. Successful completion of the program qualifies students to register for the examination for certification as a pediatric nurse practitioner. The MSN - Pediatric Nurse Practitioner is offered in a hybrid format.

Pediatric Nurse Practitioner Curriculum
In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the PNP/MSN for a program total of 49 credits.

Each semester in the program students are assessed a non-refundable program fee of $450 to be paid in addition to tuition. The fee covers a variety of program-related expenses outside of tuition and books.

MSN Core Courses

NURS 705 Primary Care Approaches for Children 3
NURS 719 Family and Community Primary Care Assessment 1
NURS 763 Health Promotion and Maintenance 2
NURS 781 Advanced Pediatric Nursing: Practicum I Primary Care 3
NURS 782 The Growth and Development of Children in the 21st Century 3
NURS 783 Management of Acute Pediatric Conditions I 3
NURS 784 Advanced Pediatric Nursing: Practicum II 4
NURS 785 Seminar in Pediatrics: Management of Chronic and Complex Clinical Conditions 3
NURS 786 Management of Acute/Critical Pediatric Conditions II 3
NURS 788 Advanced Pediatric Nursing: Practicum III 3

Total Hours 49

Master of Science in Nursing - Neonatal Nurse Practitioner Role
Alyssa Weiss, Program Director

The neonatal nurse practitioner (NNP) provides population-focused health care to preterm (<37 weeks) term neonates, infants, and children up to 2 years of age. As a key member of an interprofessional team, the NNP participates in a wide variety of complex patient care activities in settings that include, but are not limited to, all levels of neonatal inpatient care in both academic and community-based settings; transport, acute care, and...

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chronic care settings; delivery rooms; and outpatient settings. Student clinical experiences are designed to prepare the graduate to practice as an NNP providing direct patient care in a newborn nursery, or in a Level II, III, or IV NICU. Successful completion of the program qualifies students to register for the examination for certification as neonatal nurse practitioner. For admission requirements see the website for the School of Nursing at http://www.odu.edu/nursing or contact the program director. The MSN - Neonatal Nurse Practitioner is offered in a hybrid format.

Neonatal Nurse Practitioner Curriculum

In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the NNP/MSN for a program total of 52 credits.

Each semester in the program students are assessed a non-refundable program fee of $450 to be paid in addition to tuition. The fee covers a variety of program-related expenses outside of tuition and books.

MSN Core Courses

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<td>Total Hours</td>
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Master of Science in Nursing - Neonatal Clinical Nurse Specialist Role

The School of Nursing offers a curriculum leading to the degree of Master of Science in Nursing with an advanced practice area of Neonatal Clinical Nurse Specialist. The program of study prepares students as expert clinicians in the application of evidence-based knowledge within the realms of nursing interventions, teaching and research.

The program requires course content in theory, research, education, Neonatal CNS professional and clinical cores, and the advanced practice area with a selected secondary focus. Applicants are admitted for full-time or part-time study and can begin in the fall. The curriculum is designed to prepare nurses as Neonatal Clinical Nurse Specialists with a secondary clinical focus in an area of their choice. Graduates of this program are eligible to sit for the American Association of Critical Care Nurses (AACN) Acute Care Neonatal (ACCNS-N) Exam. The MSN - Neonatal Clinical Nurse Specialist is offered online only.

Neonatal Clinical Nurse Specialist Curriculum

In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the CNS/Neonatal program for a total of 52 credits.

MSN Core Courses

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<td>NURS 775</td>
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Master of Science in Nursing - Psychiatric Mental Health Nurse Practitioner

Christiane Nesbitt, Program Director
The Master’s in Nursing with specialization in Psychiatric Mental Health Nurse Practitioner (PMHNP) is a two-year program preparing students with MSN advanced practice skills to care for psychiatric mental health patients across the lifespan. Graduates are eligible to take the national PMHNP certification examination. The program is full time study. The MSN - Psychiatric Mental Health Nurse Practitioner is offered in a hybrid format. In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the PMHNP/MSN for a program total of 41 credits.

**ODU MSN Core Courses**  
21

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<td>Fundamentals of Psychotherapy and Differential Diagnosis</td>
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<td>NURS 725</td>
<td>Psychopharmacology and Neurobiology</td>
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<tr>
<td>NURS 726</td>
<td>Managing Psychiatric Disorders Across the Lifespan</td>
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<td>NURS 727</td>
<td>Psychiatric Mental Health Nurse Practitioner Practicum I</td>
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<td>NURS 728</td>
<td>Psychiatric Mental Health Nurse Practitioner Practicum II</td>
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<tr>
<td>NURS 763</td>
<td>Health Promotion and Maintenance</td>
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**Total Hours**  
41

**Master of Science in Nursing - Nurse Midwifery (cooperative program with Shenandoah University)**

Carolyn Rutledge, Associate Chair of Nursing  
Karen Feltham, Shenandoah University Program Director

The Master’s in Nursing, with specialization in nurse midwifery, is a joint program with Shenandoah University. The two-year program includes advanced practice nursing content offered by Old Dominion University. Midwifery specific courses taken in the second year are through Shenandoah University. The Master of Science in Nursing is awarded by Old Dominion University and a certificate of midwifery specialty is awarded by Shenandoah University. Graduates are eligible to take the national midwifery certification examination. The program is full time study. The MSN - Nurse Midwifery is offered in a hybrid format.

In addition to the 21 credits of MSN core courses the following courses are required for degree completion of the MW/MSN for a program total of 52 credits.

**ODU MSN Core Courses**  
21

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
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<td>Shenandoah Courses</td>
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<td>NM 610 Primary Care of Women</td>
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<td>NM 612 Women's Health</td>
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<td>NM 620 Comprehensive Antepartal Care</td>
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<td>NMLB 624 Midwifery Practicum I</td>
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<td>3</td>
</tr>
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<td>NMLB 630 Midwifery Practicum II</td>
<td></td>
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<tr>
<td>NM 640 Comprehensive Perinatal Care</td>
<td></td>
<td>3</td>
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<tr>
<td>NM 641 Perinatal Complications</td>
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<tr>
<td>NMLB 651 Integrated Midwifery Internship</td>
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<td>NM 652 Evidence Based Practice Project</td>
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<tr>
<td>NM 660 Advanced Nurse-Midwifery Role Development</td>
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**Total Hours**  
52

**Doctor of Nursing Practice**

The Doctor of Nursing Practice program is designed for nurses that are seeking a terminal degree in nursing practice. DNP-prepared nurses are equipped to serve as clinical experts, change agents, and advocates in addressing healthcare in our nation. Specific areas of focus include: advanced practice skills, healthcare policy, organizational and systems leadership, interprofessional collaboration, evidence-based research, healthcare technology, informatics, and patient advocacy. The DNP program at ODU is fully accredited by the Commission on Collegiate Nursing Education (CCNE).

ODU offers three tracks in the DNP programs: 1) Post-Master’s Advanced Practice (build on traditional master's programs for nurse practitioners, clinical nurse specialists, nurse midwives, and nurse anesthesia), 2) Post-Master’s Nurse Executive, Post-Masters Psychiatric Mental Health Nurse Practitioner (for APRNs seeking to add a PMHNP and DNP) and 3) Post-Baccalaureate Nurse Anesthesia (CRNA). In order to graduate from Old Dominion University’s Post-Master’s APN and NE DNP programs, a student must successfully complete all 37 post-masters credit hours of required course work, including an evidence-based DNP project, and all clinical practica. It will take a full-time student four semesters (spring, summer, fall and spring) to complete the program. A part-time student will complete the DNP program in seven semesters (spring, summer, fall, spring, summer, fall, and spring). All of the master’s programs in nursing at ODU include six credits that also meet requirements for the DNP program allowing students to complete the DNP in three additional semesters. See specific differing credit requirements and curriculum plans for Post Masters Psych Mental Health DNP and Post Baccalaureate Nurse Anesthesia programs.

See detailed information on each track in the following sections. Refer to the School of Nursing (SON) website for program specific curriculum plans www.odu.edu/nursing

**Admission Requirements for the DNP Program**

*Note: For admission requirements to the Nurse Anesthesia program refer to the website at http://www.odu.edu/nursing (http://www.odu.edu/nursing/graduate/dnp-to-post-masters/anesthesia/).

In addition to meeting University requirements, applicants must meet the admission criteria below:.  

1. Current, unencumbered license as a registered nurse (RN).  
2. Master's degree in nursing or a related field from a regionally accredited college or university with a minimum of 3.0 grade point average.  
3. Baccalaureate degree in nursing or related field from a regionally accredited college or university with a minimum of a 3.0 grade point average.  
4. Three letters of recommendation, with at least one from a former faculty member and at least two from former employers.  
5. A 500-700 word essay that should speak specifically to the concentration area to which you are applying.  
6. Current Resume  
7. GRE is required for the DNP Anesthesia Program but may be waived with a baccalaureate GPA of 3.5 or higher, waiver requires approval of the program director.

**Application Deadlines for the DNP Programs**

- Post Master's Advanced Practice - September 1
- Post Master's Nurse Executive - September 1
- Post Masters Psych Mental Health - September 1
- Nurse Anesthesia - September 15

**Doctor of Nursing Practice - Post Master's Advanced Practice**

Carolyn Rutledge, Associate Chair of Nursing
The Doctor of Nursing Practice (DNP) degree will provide additional education for advanced practice nurses in:

1. Advanced diagnostics and practice skills;
2. Care of the underserved and increasingly diverse population; and
3. Incorporation of emerging care technologies. The program may be completed as a full-time or part-time student and is distance friendly.

To graduate from Old Dominion University’s DNP Program, a student must have successfully completed all 37 post-masters credit hours of required course work, including an evidence-based research project and all clinical practice. It will take a full-time student four semesters (spring, summer, fall and spring) to complete the program. A part-time student will complete the DNP program in seven semesters (spring, summer, fall, spring, summer, fall, and spring). The DNP - Post Master's Advanced Practice track is offered in a hybrid format.

### Nurse Executive Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NURS 800</td>
<td>Introduction to Healthcare Disparities, Vulnerable Populations, and Epidemiology</td>
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<tr>
<td>NURS 801</td>
<td>Roles and Responsibilities for Transforming Practice</td>
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<tr>
<td>NURS 802</td>
<td>The Business of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Leadership and Interprofessional Practice in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>NURS 805</td>
<td>Application of Practice-Based Research Methods</td>
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<tr>
<td>NURS 806</td>
<td>Proposal Development and Database Management</td>
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<tr>
<td>NURS 807</td>
<td>Informatics and Healthcare Technology</td>
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<td>NURS 809</td>
<td>Advocacy for Healthcare Public Policy for Advanced Practice</td>
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<td>NURS 865</td>
<td>DNP Clinical Practicum I</td>
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<td>DNP Clinical Practicum II</td>
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<td>DNP Clinical Practicum III</td>
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<td>NURS 868</td>
<td>DNP Clinical Practicum IV</td>
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<tr>
<td>NURS 890</td>
<td>DNP Nursing Capstone</td>
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**Total Hours**: 37

* Courses are included in the master's program.

### Doctor of Nursing Practice - Nurse Anesthesia

**Nathaniel Apatov, Program Director**

The Doctor of Nursing Practice (DNP) with specialization in nurse anesthesia prepares the graduate to provide a variety of anesthetics to patients across the lifespan and wellness continuum. Graduates are groomed to translate research and evidence into clinical practice, to care for underserved and diverse populations, incorporate emerging care technologies, develop leadership skills and measure patient outcomes in an effort to improve safety and quality of patient care.

The Old Dominion University DNP program with specialization in nurse anesthesia is a 97 credit, 36 month full time program that begins in May each year. The program is a hybrid of on-campus and on-line classes. The curriculum is an assimilation of nurse anesthesia specialty and DNP courses. Each student is required to complete a scholarly project that addresses patient care, quality improvement, process improvement, or practice improvement. The GRE requirement is waived with a BSN of 3.5 or above or a previous master's degree. The Nurse Anesthesia program is accredited by the Council on Accreditation for Nurse Anesthesia Educational Programs. For admission requirements see the website for the School of Nursing [http://www.odu.edu](http://www.odu.edu) or contact the program director.

### Nurse Anesthesia Curriculum

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<th>Course Code</th>
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<td>NURS 800</td>
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<td>NURS 801</td>
<td>Roles and Responsibilities for Transforming Practice</td>
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Doctor of Nursing Practice – Post Master's Psychiatric Mental Health Nurse Practitioner

Carolyn Rutledge, Associate Chair of Nursing

The Psychiatric Mental Health Nurse Practitioner Post Masters Doctor of Nursing Practice (DNP) program has been developed to address a growing demand from advanced practice nurses for programming that enables them to obtain a DNP and an additional national certification as a nurse practitioner in the area of psychiatric mental health. This Post Masters Psychiatric Mental Health DNP program is targeted to licensed, registered nurses with an APRN MSN who wish to gain new skills and knowledge for board certification to provide psychiatric care services as a psychiatric mental health nurse practitioner. The Psychiatric Mental Health Doctor of Nursing Practice (DNP) degree will provide additional education for advanced practice nurses in:

- Advanced diagnostics and practice skills in psychiatric mental health;
- Care of the underserved and increasingly diverse population; and
- Incorporation of emerging care technologies.

The program may be completed full-time and is distance friendly.

To graduate from Old Dominion University’s DNP Program, a student must have successfully completed all 37 post-masters credit hours of required DNP course work, including an evidence-based DNP research project and all clinical practica, as well as 17 hours of required PMHNP content for a total of 53 credits. It will take a full-time student seven semesters to complete the program. DNP - Post Master's Psychiatric Mental Health Nurse Practitioner track is offered in a hybrid format.

Admission Requirements

1) Completed application for review and admission to the Psychiatric Mental Health Nurse Practitioner track and DNP program.
2) Prior successful completion (grade of B or better) of the following courses in a previous APRN MSN program, preferred within 5 years of admission:
   a. Advanced Pathophysiology
   b. Advanced Physical Assessment
   c. Advanced Pharmacology

Psychiatric Mental Health Curriculum

NURS 723 Fundamentals of Psychotherapy and Differential Diagnosis 3
NURS 726 Managing Psychiatric Disorders Across the Lifespan 3
NURS 727 Psychiatric Mental Health Nurse Practitioner Practicum I 4
NURS 728 Psychiatric Mental Health Nurse Practitioner Practicum II 5
NURS 800 Introduction to Healthcare Disparities, Vulnerable Populations, and Epidemiology 3
NURS 801 Roles and Responsibilities for Transforming Practice 3
NURS 802 The Business of Advanced Nursing Practice 3
NURS 803 Leadership and Interprofessional Practice in Healthcare 3
NURS 805 Application of Practice-Based Research Methods 2
NURS 806 Proposal Development and Database Management 4
NURS 865 DNP Clinical Practicum I 2

Total Hours 35

Certificate Programs

Certificate programs offered by the School of Nursing are post-graduate, non-degree offerings. These highly focused programs are designed to provide nurses or others with knowledge and skills to complement their advance practice roles.

Admission Requirements for Certificate Programs

1. School of Nursing Supplemental Application (available at www.odu.edu/nursing)
2. A 500-700 word essay that addresses the applicant's goals and reasons for seeking the certificate.
3. Transcripts
4. One letter of recommendation
5. Resume
6. Non degree application

Nurse Educator Certificate Program

Karen Karlowicz, Advisor

The Nurse Educator Certificate program offers valuable knowledge and practical experience related to teaching in entry-level or graduate nursing education programs. Courses provide an overview of nursing curriculum design, program evaluation, student assessment, instructional methodologies, and professional/ethical/legal issues in nursing/health professions education. Completion of a teaching practicum is required.

This certificate program is targeted to nurses with at least one graduate degree in nursing who may be seeking faculty positions in entry-level or
graduate nursing education programs. Admission is also open to students currently enrolled in a graduate nursing program as well as currently enrolled or graduates of other Health Sciences graduate degree programs. The expected time to complete the certificate is three semesters. It is recommended that students begin the course sequence in fall semester.

NURS 676 Professional, Ethical and Legal Concepts of Nursing Education 3
NURS 720 Instructional Delivery Methods & Learner Assessment 3
NURS 730 Nursing Curricular Design and Program Evaluation 3
NURS 734 Educator Internship: Classroom Instruction 3

Total Hours 12

Neonatal Physician Assistant Certificate Program

Alyssa Weiss, Advisor

This program is designed to educate licensed physician assistants with sponsored physician support for a role in neonatal care. The program of study will provide didactic instruction to complement the physician assistant’s on-the-job clinical training, as well as offer a unique opportunity for interprofessional education with neonatal nurse practitioner students. All courses are delivered online, with one course requiring an on-campus visit for neonatal care skills verification and interprofessional telehealth training.

In addition to the certificate admission requirements listed above, PA applicants must submit a physician sponsor letter, Physician Assistant transcripts and documentation of Physician Assistant certification.

NURS 751 Developmental Neonatal Physiology 2
HLSC 771 Foundations of Advanced Neonatal Care 3
NURS 773 Pharmacology for Advanced Neonatal Care 3
NURS 774 Advanced Neonatal Care: High Risk Management I 3
HLSC 775 Advanced Neonatal Care: High Risk Management II 3

Total Hours 14

Post-Professional Certificate - Adult Gerontology Clinical Nurse Specialist

Pamela Bishop, Advisor

This post-professional certificate enables nurses with a previously earned MSN to complete only those courses and practicums required for eligibility to take the Adult Gerontology Clinical Nurse Specialist certification exam. This program is offered online.

Admission Requirements

1. Successful completion (grade of B or better) of the following courses:
   a. Advanced Pathophysiology
   b. Advanced Physical Assessment
   c. Pharmacology core courses completed as part of a previously earned MSN degree
   2. Completed application for admission to the certificate program.
   3. The application submission deadlines for the certificate program are the same as those for the MSN program.

Degree Requirements

The 19-credit hour post-master's certificate curriculum includes those courses required by the American Nurses Credentialing Center and the American Association of Critical Care Nurses, both of which administer certification exams for the for the Adult Gerontology Clinical Nurse Specialist.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NURS 721</td>
<td>Aging in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>NURS 738</td>
<td>Clinical Nurse Specialist I: Introduction to Practice</td>
<td>2</td>
</tr>
<tr>
<td>NURS 739</td>
<td>Clinical Nurse Specialist I: Role Socialization</td>
<td>4</td>
</tr>
<tr>
<td>NURS 756</td>
<td>Clinical Nurse Specialist II: Transition to Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 757</td>
<td>Clinical Nurse Specialist Practicum II: Role Transition</td>
<td>5</td>
</tr>
<tr>
<td>NURS 763</td>
<td>Health Promotion and Maintenance</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours 19

Post-Professional Certificate in Family Nurse Practitioner

Karen Higgins, Advisor

The Post-Professional Certificate for Family Nurse Practitioner has been developed to address a growing demand from nurses for programming that enables them to obtain national certification as an advanced practice nurse (nurse practitioner) in the area of family care. The program will educate students in the concepts associated with illnesses and conditions across the lifespan. Students will develop knowledge in the diagnosis and management of illnesses. Students will learn to provide advanced nursing care to patients from childhood to older adulthood. Upon completing the program, application of key concepts related to diagnosis, treatment, and ongoing management of patients in primary care settings, with a focus on healthy promotion and disease prevention using best practices and evidence-based care to achieve the best possible patient outcomes will be understood.

This certificate program is targeted to licensed, registered nurses with a APRN MSN who wish to gain new skills and knowledge for board certification to provide primary care services as a family nurse practitioner. The expected time to complete the program is 1.5 years. There is a limited number of seats for the Post-Professional Certificate in Family Nurse Practitioner. The Post Professional FNP Certificate track is offered in a hybrid format.

Admission Requirements

1. Successful completion (grade of A- or better) of the following courses in a previous APRN MSN program within the last 5 years:
   a. Advanced Pathophysiology
   b. Advanced Physical Assessment
   c. Advanced Pharmacology
   d. Health Promotion

Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NURS 705</td>
<td>Primary Care Approaches for Children</td>
<td>3</td>
</tr>
<tr>
<td>NURS 719</td>
<td>Family and Community Primary Care Assessment</td>
<td>1</td>
</tr>
<tr>
<td>NURS 760</td>
<td>Advanced Family Nursing I Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NURS 762</td>
<td>Advanced Family Nursing I: Management of Acute Illnesses</td>
<td>3</td>
</tr>
<tr>
<td>NURS 764</td>
<td>Advanced Family Nursing II Practicum</td>
<td>4</td>
</tr>
<tr>
<td>NURS 765</td>
<td>Advanced Family Nursing II: Management of Chronic Illnesses</td>
<td>3</td>
</tr>
<tr>
<td>NURS 766</td>
<td>Primary Care Approaches for Women</td>
<td>3</td>
</tr>
<tr>
<td>NURS 767</td>
<td>Advanced Family Nursing III Practicum</td>
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</tr>
</tbody>
</table>

Total Hours 23-24

Post-Professional Certificate in Psychiatric Mental Health Nurse Practitioner

Christianne Nesbitt, Advisor
The Post-Professional Certificate in Psychiatric Mental Health Nurse Practitioner has been developed to address a growing demand from nurses for programming that enables them to obtain national certification as an advanced practice nurse (nurse practitioner) in psychiatric mental health. This certificate program is targeted to licensed, registered nurses with an APRN MSN who wish to gain new skills and knowledge for board certification to provide psychiatric care services as a psychiatric mental health nurse practitioner. The expected time to complete the program is 3 semesters or 12 months. There is a limited number of seats for the Post-Professional Certificate in Psychiatric Mental Health Nurse Practitioner.

**Admission Requirements**

1) Successful completion (grade of B or better) of the following courses in a previous APRN MSN program, preferred within 5 years of admission:

   a. Advanced Pathophysiology
   b. Advanced Physical Assessment
   c. Advanced Pharmacology

2) Completed application for admission to the certificate program.

**Degree Requirements**

The 18-credit hour post-APRN master's certificate curriculum includes those courses required by the American Nurses Credentialing Center which administers certification exams for the Psychiatric Mental Health Nurse Practitioner specialty.

**Curriculum**

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>NURS 723</td>
<td>Fundamentals of Psychotherapy and Differential Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Psychopharmacology and Neurobiology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 726</td>
<td>Managing Psychiatric Disorders Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>NURS 727</td>
<td>Psychiatric Mental Health Nurse Practitioner Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 728</td>
<td>Psychiatric Mental Health Nurse Practitioner Practicum II</td>
<td>5</td>
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</table>

**Total Hours**

18

**NURSE ANESTHESIA Courses**

**NURA 745. Applied Chemistry and Physics for Nurse Anesthetists. 2 Credits.**

This course is a review of the principles of organic chemistry, biochemistry, and physics. It is designed as a foundation for the students' understanding of pharmacology, physiology, and the anesthesia gas machine. This course will also provide an introduction to the chemical structure-activity relationships, metabolism and mechanism of action of selected agents.

**NURA 746. Advanced Physiology for Nurse Anesthetists. 4 Credits.**

This course focuses on normal physiological functioning of body systems building on undergraduate anatomy and physiology to further examine structure and function focusing on cellular, subcellular, genetic and biochemical processes. The goal is to provide an in-depth understanding of the function and regulation of body systems to maintain homeostasis. Learners will integrate physiologic concepts for the basis for critical thinking and decision making when assessing patients with multi-system failure. Learners are provided with essential knowledge of human health and disease across the lifespan necessary for advanced nursing practice. This course consists of four hours of lecture/discussion/in-class clinical module work per week.

**NURA 750. Applied Principles of Anesthesia Practice I. 4 Credits.**

This course integrates scientific concepts with basic principles of anesthesia practice and prepares the student for their new role in the safe and effective delivery of anesthesia. Emphasis is on vital anesthesia monitoring and delivery systems. Airway management and general anesthesia techniques will also be discussed. Simulation is incorporated into the learning process to reinforce principles introduced in class. Prerequisite: NURA 745.

**NURA 751. Applied Principles of Anesthesia Practice II. 4 Credits.**

This course formulates a basic level of cognitive, affective, and psychomotor expertise for the preoperative, intraoperative, and postoperative anesthesia periods. Students will analyze and apply basic physiological principles in preparation for the anesthesia management of patients undergoing complex surgical procedures. Human Simulation is incorporated into the learning process to reinforce principles introduced in class. Prerequisites: NURA 746 and NURA 750.

**NURA 752. Applied Principles of Anesthesia Practice III. 4 Credits.**

This course is the third course in a series of three and is intended to further the foundation for safe and effective delivery of anesthesia. It is designed to prepare the student for the decision making necessary for the complex issues of anesthesia in clinical practice. Students will apply knowledge of pathophysiological conditions to formulate safe plans of care for patients undergoing complex surgical procedures. Human Simulation is incorporated into the learning process to reinforce principles introduced in class. Prerequisites: NURA 770 and NURA 751.

**NURA 753. Advanced Pharmacology for Nurse Anesthesia Practice. 3 Credits.**

This is a course in advanced anesthesia pharmacotherapeutics that builds on prior knowledge of drug classification, actions, interactions and adverse drug reactions. The major focus of the course is synthesizing principles learned in Advanced Pharmacology for Nursing Practice and applying them to anesthetic pharmaceuticals. Emphasis is placed on the critical thinking process used to choose and prescribe drugs in the management of anesthetic. Core concepts include applied pharmacodynamics, pharmacokinetics, volatile agent delivery systems, theories of anesthetic action and the interactions between patient medication and anesthetic agents. This course consists of three hours of lecture/discussion/in-class clinical module work per week.

**NURA 761. Evidenced-Based Seminar for Anesthesia Practice I. 1 Credit.**

This course is the first in a series of five seminar courses that helps prepare advanced practice nurses with an opportunity to assess clinical and scientific evidence through appraisal of the literature. The course explores the philosophical underpinnings for nursing knowledge and evidence in nursing practice. Pre- or corequisite: NURA 752, NURA 754, and NURA 801.

**NURA 762. Evidenced-Based Seminar for Anesthesia Practice II. 1 Credit.**

This course is the second in a series of five seminar courses that helps prepare advanced practice nurses with an opportunity to assess clinical and scientific evidence through appraisal of the literature. The course is designed to build on the understanding gained in NURA 761 and to expand the advanced practice nursing student's understanding of research methods, design, and statistics. Prerequisites: NURA 761.

**NURA 797. Independent Study. 1-10 Credits.**

Independent study in nurse anesthesia under the guidance of a faculty. Prerequisites: admission to the nurse anesthesia program.

**NURA 853. Nurse Anesthesia Clinical Practicum: Simulation and Orientation to Clinical Anesthesia. 1 Credit.**

This introductory-level course is designed to integrate didactic knowledge with basic practical application. The student will apply knowledge concerning preoperative assessment, care plan development, induction sequence, basic airway management, function and usage of anesthesia equipment, pharmacology dosing and mathematics for anesthesia. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: Successful completion of all first, second and third semester courses in the Nurse Anesthesia program.
NURA 854. Nurse Anesthesia Clinical Practicum A. 3 Credits.
This introductory-level course is designed to integrate didactic knowledge with basic practical application to the art and science of nurse anesthesia. It designed to cultivate the novice student nurse anesthetist in selected clinical settings under direct supervision of qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 853.

NURA 855. Nurse Anesthesia Clinical Practicum B. 5 Credits.
This course is the second in an increasingly complex six-course series and continues the integration of didactic knowledge and practical application to the art and science of nurse anesthesia. It is designed to cultivate the advanced beginner student nurse anesthetist in selected clinical settings under close direction of qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 854.

NURA 856. Nurse Anesthesia Clinical Practicum C. 4 Credits.
This course is the third in an increasingly more complex six-course series and continues the integration of didactic knowledge and practical application to the art and science of nurse anesthesia. It is designed to cultivate the competent student nurse anesthetist in a variety of clinical settings under the guidance of qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 855.

NURA 857. Nurse Anesthesia Clinical Practicum D. 4 Credits.
This course is the fourth in an increasingly more complex six-course series and continues the integration of didactic knowledge and practical application to the art and science of nurse anesthesia. It is designed to cultivate the proficient student nurse anesthetist in a variety of clinical settings under the guidance of qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 856.

NURA 858. Anesthesia Clinical Practicum E. 4 Credits.
This course is the fifth in a series of six in an increasingly more complex six-course series, and continues the integration of didactic knowledge and practical application to the art and science of nurse anesthesia. It is designed to cultivate the proficient student nurse anesthetist in a variety of clinical settings in collaboration with qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 857.

NURA 859. Anesthesia Clinical Practicum F. 4 Credits.
This course is the final in an increasingly more complex six-course series and continues the integration of didactic knowledge and practical application to the art and science of nurse anesthesia. It is designed to cultivate the proficient student nurse anesthetist in a variety of clinical settings in collaboration with qualified clinical preceptors. The student will be immersed in the anesthesia clinical environment for this course. Course content is based on the American Association of Nurse Anesthetists Standards for Nurse Anesthesia Practice and the American Association of Colleges of Nursing DNP Essentials. Prerequisites: NURA 858.

NURA 863. Evidenced-Based Seminar for Anesthesia Practice III. 1 Credit.
This course is the third in a series of five seminar courses designed to enhance the nurse anesthesia student's understanding of research methods, design and analysis. A journal club format is used to evaluate anesthesia care for optimum outcomes using published research studies. Prerequisite: NURA 762.

NURA 864. Evidenced-Based Seminar for Anesthesia Practice IV. 1 Credit.
This course is the fourth in a series of five seminar courses designed to enhance the nurse anesthesia student's understanding of research methods, design and analysis. A journal club format is used to evaluate anesthesia care for optimum outcomes using published research studies. Prerequisite: NURA 863.

NURA 865. Evidenced Based Seminar for Anesthesia Practice V. 1 Credit.
This course is the fifth in a series of five seminar courses designed to enhance the nurse anesthesia student's understanding of research methods, design and analysis. A journal club format is used to evaluate anesthesia care for optimum outcomes using published research studies. Prerequisite: NURA 864.

NURA 998. Master's Graduate Credit. 1 Credit.
This course is a pass/fail course for master's students in their final semester. It may be taken to fulfill the registration requirement necessary for graduation. All master’s students are required to be registered for at least one graduate credit hour in the semester of their graduation.

NURSING Courses

NURS 595. Topics in Nursing. 1-3 Credits.
The study of selected topics that may not be offered regularly. Special topics will appear in the schedule of classes each semester. Prerequisites: Permission of the instructor.

NURS 650. Shenandoah University Midwifery Courses. 19 Credits.
This course provides for the award of credit for selected courses taken at Shenandoah University in fulfillment of Midwifery program requirements: NM 610, NM 620, NMLB 630, NM 640, NMLB 651, NM 652, and NM 660.

NURS 651. Shenandoah University Psychiatric Mental Health Courses. 27 Credits.
This course provides for the award of credit for selected courses taken at Shenandoah University in fulfillment of the Psychiatric Mental Health Nurse Practitioner program requirements: NP 525,PMH 635, PMH 680,PMH 640, PMH 685, PMH 660, HP 576, PMH 695.

NURS 654. Assessment and Evaluation in Nursing Education. 3 Credits.
This course concentrates on strategies to measure and improve nursing student performance in the classroom, as well as enhance course and program effectiveness. Emphasis is on the selection of instruments, data collection methods and reporting procedures to guide assessment and evaluation processes that are appropriate for what is being examined. Prerequisites: NURS 634, NURS 636, NURS 644, NURS 645, and NURS 649.

NURS 676. Professional, Ethical and Legal Concepts of Nursing Education. 3 Credits.
This course is designed to prepare students for the role of educator in higher education environments. Emphasis is on the identification of functions, rights, and responsibilities of nursing faculty in relation to students, colleagues, administrators, the institution, community, and profession.

NURS 699. Thesis/Research Project. 1-3 Credits.
Thesis/research project completion. Variable credit to be determined by research advisor. May be repeated as needed. Prerequisites: NURS 611, NURS 640.

NURS 705. Primary Care Approaches for Children. 3 Credits.
This course for the family nurse practitioner focuses upon primary health care problems in the pediatric population. Emphasis is placed upon assessment and management of healthy and ill children. Prerequisites: NURS 661, NURS 670, NURS 671, NURS 672.

NURS 707. Informatics and Healthcare Technology. 3 Credits.
This course will cover the use of data in health care as well as other informatics applications. Students will explore healthcare technology used to improve the delivery and evaluation of care.
NURS 709. Evidence-Based Research and Theories for Nursing Practice. 3 Credits.
This course focuses on the development of advanced nursing knowledge related to the utilization of evidence-based research for best practice. The focus is on understanding nursing and non-nursing models, concepts, and theories as the supporting framework for professional nursing practice and research. Emphasis is placed on the evaluation and application of research and evidence for use in advanced practice.

NURS 713. Telehealth for Providers. 1 Credit.
This course is designed to provide the student involved in healthcare or healthcare supportive roles with knowledge and skills to become actively involved in the implementation and delivery of telehealth services.

NURS 714. Competitive Resource Design and Utilization. 3 Credits.
This course focuses on the competitive design and utilization of organizational and human resources. Emphasis will be placed on the strategic process to ensure that resources are applied in ways to ensure high-quality care and excellent patient outcomes. The course will cover the business models for effective financial and personnel management of healthcare organizations. Analysis of the costs and quality of care will be performed.

NURS 715. Ethical Concepts of Advanced Practice Nursing. 3 Credits.
This course is designed to provide students with core ethical knowledge necessary to describe and analyze ethical concepts foundational to the advanced practice nursing role. Students will develop and evaluate strategies, including ethical decision making frameworks, to address ethical dilemmas inherent in patient care, health organizations and research.

NURS 717. Strategic Leadership Practicum. 3 Credits.
This practicum course emphasizes the advanced practice nurse’s role in strategic planning and program development. Students enrolled in this advanced practice course will participate in clinical practice experiences in a chosen focus area. This course is designed to provide students with experiences in applying the knowledge acquired in Strategic Leadership. Pre- or corequisite: NURS 740 or permission of instructor.

NURS 718. Practicum Immersion for Novice Nurse Executives. 3 Credits.
This practicum course serves as a bridge between the roles of nurse administrators and nurse executives. Targeted practicum experiences will enable the nurse administrator to examine the role of the nurse executive related to implementation of change, meeting strategic initiatives, program evaluation, and outcome management in a chosen focus area. Application of futuristic and visionary theory to health care system trends is explored to provide optimal strategic positioning in the future healthcare market.

NURS 719. Family and Community Primary Care Assessment. 1 Credit.
This course provides students with the opportunity to develop advanced practice skills for assessing families and family members across the life span and throughout generations. This course will focus on theoretical, research and practice foundations used to develop strategies to maximize safe, comprehensive, and holistic care given by the advanced practice nurse.

NURS 720. Instructional Delivery Methods & Learner Assessment. 3 Credits.
The enhancement of nursing education through an array of instructional delivery methods based on reports of best practices, research findings, instructional-related theories, and learning-related theories is examined. Emphasis is on identifying ways to blend traditional teaching strategies for classroom and clinical instruction with technology-based instruction utilizing a variety of resources and models. Pre- or corequisite: NURS 734 or permission of instructor.

NURS 721. Aging in the 21st Century. 3 Credits.
This course explains the history of the specialty of geriatrics, the social impact, health maintenance goals and physical changes associated with aging. The role of interprofessional teams in meeting the needs of the aging population will be explored.

NURS 723. Fundamentals of Psychotherapy and Differential Diagnosis. 3 Credits.
This course provides the history and current methods of psychotherapy as well as current methods of diagnosis of mental health disorders and differential diagnosis. Knowledge will be applied across the lifespan including: adult, child, adolescent, older adults and special populations.

NURS 725. Psychopharmacology and Neurobiology. 3 Credits.
This course will examine the psychopharmacology of medications used to treat mental health disorders. It will also examine basic neurobiology and evaluate the intrinsic and extrinsic factors associated with the development of mental health disorders.

NURS 726. Managing Psychiatric Disorders Across the Lifespan. 3 Credits.
This course provides the opportunity to gain knowledge of the management of mental health conditions across the lifespan, including child, adolescent, adult and older adult. Disparities across populations will be a component of the course. Culturally-centered, collaborative care will be emphasized in the preventive care and management of mental health disorders.

NURS 727. Psychiatric Mental Health Nurse Practitioner Practicum I. 4 Credits.
This course provides the opportunity for students to work in various psychiatric mental health environments focusing on a diverse population. The course will offer the opportunity to work with clinical mentors in their own communities. The time in these settings will allow students to begin their diagnosis and selection of appropriate treatment strategies, including medications and therapy, for individuals, families and groups with a wide variety of psychiatric mental health concerns. Prerequisites: NURS 723, NURS 725, NURS 761, NURS 770, and NURS 771. Pre- or corequisite: NURS 726.

NURS 728. Psychiatric Mental Health Nurse Practitioner Practicum II. 5 Credits.
This course provides the opportunity for students to build on previous clinical course work in various psychiatric mental health environments focusing on a diverse population. The time in these settings will allow students to enhance their diagnosis and selection of appropriate treatment strategies for individuals (child, adolescent, adult and older adult), families, and groups with a wide variety of psychiatric mental health concerns. This course requires 280 clinical hours. Prerequisites: NURS 727. Pre- or corequisite: NURS 760.

NURS 730. Nursing Curricular Design and Program Evaluation. 3 Credits.
This course focuses on factors impacting the development of nursing curricula including theory, professional practice trends, education standards, accreditation guidelines and institutional policy/procedure. Components of curricula are evaluated, and strategies for program evaluation are explored.

NURS 731. Newborn Assessment. 3 Credits.
This course develops the students’ ability to evaluate the maternal health record and assess and manage normal newborns. This is taken before the neonatal management courses and will provide a theoretical and practical knowledge for newborn assessment for the neonatal nurse practitioner to manage the health care needs of the normal newborn at the highest level of nursing practice.

NURS 732. Health Care Populations, Diversity and Outcomes. 3 Credits.
This course examines current topics and issues related to health disparities in underserved populations. Students will examine intervention and policy research using an interdisciplinary perspective as well as the structural, financial and personal barriers to optimal health outcomes.

NURS 734. Educator Internship: Classroom Instruction. 3 Credits.
This internship course is designed to provide the student with experience facilitating classroom instruction in an entry level nursing program.
NURS 735. Organizational and Management Theory, 2 Credits. This course provides a theoretical foundation focusing on leadership theory and assessment strategies for use in the health care systems. Theories on leadership, organizations, policy, administration, and change will be applied to current health care system issues. Assessment tools for applications of theories will be utilized. Principles of organizational behavior and human resource management will be explored in the context of health care system needs.

NURS 738. Clinical Nurse Specialist I: Introduction to Practice, 2 Credits. This course provides the graduate student with knowledge of core concepts that provide the foundation for Clinical Nurse Specialist practice.

NURS 739. Clinical Nurse Specialist I: Role Socialization, 4 Credits. This course is designed to acquaint the student with the role of the Clinical Nurse Specialist in the practice environment.

NURS 740. Strategic Leadership, 2 Credits. Principles of organizational strategy and program development are the major components for this course. Relevant theories associated with organizational development, setting program strategic initiatives, strategic planning, and organizational level analysis and evaluation will be explored. Prerequisites: admission to program or approval of instructor.

NURS 745. Visionary Leadership, 3 Credits. The final course in the leadership series provides the opportunity to examine outcomes at the program and health care system level and project future health care system needs. The focus is on activities necessary for effective evaluation of health care programs and meeting strategic initiatives by successfully implementing change. Capability for envisioning profound changes within the health care system will be developed. Transformational/ Futuristic theory will be applied to envision market change for health care systems to be strategically positioned for future trends. Prerequisites: Admission to program or approval of instructor.

NURS 751. Developmental Neonatal Physiology, 2 Credits. This course provides an in-depth examination of human genetics, embryologic development and normal physiologic functioning of developing body systems. Mechanisms involved in cell division, gametogenesis, and inheritance patterns will be addressed. Basic genetics and epigenetics will be included. The structural and functional development of fetal systems, during critical periods, will be emphasized. Abnormalities and alterations in fetal development will be explored.

NURS 756. Clinical Nurse Specialist II: Transition to Practice, 3 Credits. This course provides the graduate student with knowledge necessary for developing Clinical Nurse Specialist practice and leadership skills. Pre- or corequisite: NURS 757.

NURS 757. Clinical Nurse Specialist Practicum II: Role Transition, 5 Credits. This clinical course focuses on Clinical Nurse Specialist practice. Concepts presented in the didactic component (NURS 756) will be actualized in the clinical setting. Pre- or corequisite: NURS 756.

NURS 758. Clinical Nurse Specialist Practicum III: Role Synthesis, 3 Credits. This capstone course focuses on synthesis and application of key concepts related to the Clinical Nurse Specialist practice. Prerequisites: NURS 738, NURS 739, NURS 756, and NURS 757.

NURS 760. Advanced Family Nursing I Practicum, 3 Credits. This course will explore current clinical concepts related to the care of healthy and pregnant women. Roles and responsibilities of the family nurse practitioner in these subspecialties will also be discussed.

NURS 761. Pharmacology for Advanced Practice Nursing, 3 Credits. This course will develop and enhance the advanced practice nurse's knowledge of pharmacological management of the patient. Expanded knowledge and application of advanced pharmacology concepts across the lifespan will build upon previous elemental concepts in pharmacology and pharmacotherapeutics obtained in undergraduate education and clinical practice. Prerequisites: Admission to the MSN program is required.

NURS 762. Advanced Family Nursing I: Management of Acute Illnesses, 3 Credits. Focus is on acute health problems in the primary care setting, including assessment and management. Inclusion of geriatric content relating to acute illnesses will be added. Prerequisites: NURS 761, NURS 770, and NURS 771.

NURS 763. Health Promotion and Maintenance, 2 Credits. This course provides the nurse practitioner student the opportunity to work with students from other professions as they develop health promotion strategies that consider the expertise of each discipline. Students will incorporate technology in promoting health.

NURS 764. Advanced Family Nursing II Practicum, 4 Credits. The purpose of this clinical course is to prepare the family nurse practitioner student to deliver primary care services to families in which a patient has either acute, women's health or pediatric care disorders. Prerequisites: NURS 761, NURS 770, and NURS 771.

NURS 765. Advanced Family Nursing II: Management of Chronic Illnesses, 3 Credits. The focus of this course is on the accurate diagnosis and management of chronic health problems within the primary care setting for the family nurse practitioner (FNP). Prerequisites: NURS 761, NURS 763, NURS 770, and NURS 771.

NURS 766. Primary Care Approaches for Women, 3 Credits. This course will explore current clinical concepts related to the care of healthy and pregnant women. Roles and responsibilities of the family nurse practitioner in these sub-specialties will also be discussed.

NURS 767. Advanced Family Nursing III Practicum, 3-4 Credits. This clinical emphasizes integration of primary care skills and clinical course decision-making in populations with acute chronic, complex, pediatric or women's health disorders for family nurse practitioner students. Prerequisites: NURS 761, NURS 760, NURS 770, NURS 771, NURS 762, and NURS 764.

NURS 770. Pathophysiology for Advanced Nursing Practice, 3 Credits. This course explains the pathophysiology of disease as a basis for advanced practice and assessment for prevention and management of health conditions. Prerequisites: Admission to the MSN or DNP program is required to enroll in this course.

NURS 771. Physical Assessment for Advanced Nursing Practice, 3 Credits. Emphasis is on advanced history taking, physical assessment and interviewing skills for advanced practice nursing. Advanced practice students will participate in lab sessions with experiential activities allowing for the development of physical assessment skills across the lifespan. Prerequisites: Admission to either the MSN or DNP program is required to enroll in this course.

NURS 772. Foundations of Advanced Neonatal Care, 3 Credits. The foundations of advanced neonatal care course provides the theoretical and practical knowledge for the neonatal nurse practitioner or physician assistant to manage the health care needs of the neonate in the newborn nursery or level II neonatal intensive care unit. Prerequisites: NURS 776, NURS 768 and NURS 787.

NURS 773. Pharmacology for Advanced Neonatal Care, 3 Credits. The course offers scientific inquiry into the use of pharmacologic agents in the advanced nursing care of infants, including fetal, neonatal life, and early childhood, Pharmacokinetics, pharmacodynamics, drug use in pregnancy and lactation, pharmacologic agents used in disease prevention and treatment, drug monitoring and drug safety in the home are explored. Pre- or corequisite: NURS 761.

NURS 774. Advanced Neonatal Care: High Risk Management I, 3 Credits. This course develops the students' ability to manage high-risk neonates. This is the second of three sequential management courses that provide the theoretical and practical knowledge for the neonatal nurse practitioner to manage the health care needs of the neonate at the highest level of nursing practice. Pre- or corequisite: NURS 778.
NURS 775. Advanced Neonatal Care: High Risk Management II. 3 Credits.
An organ systems approach is used to explore the diagnosis and management of neonates requiring surgery and advanced technologies. Additional topics will include developmental follow-up of the medically fragile infant and withdrawal of life support in the NICU. Pre- or corequisite: NURS 789.

NURS 776. Advance Neonatal Nursing Practicum I, 3 Credits.
The development of foundational skills associated with the physical assessment and management of the neonate is the focus of this practicum experience. Pre- or corequisites: NURS 768, NURS 787 and NURS 790.

NURS 777. Advanced Neonatal Nursing: Practicum II. 4 Credits.
The focus of this course is the accurate diagnosis and management of high risk neonatal clinical problems. Pre- or corequisite: NURS 775.

NURS 779. Seminar in Pediatrics/Management of Chronic and Complex Neonatal Clinical Problems. 3 Credits.
This course utilizes a journal club approach and is designed to acquaint the advance practice neonatal nurse with issues associated with the management of chronic and complex clinical problems. Emphasis is on the identification of clinical conditions requiring timely referral for diagnosis and treatment. Topics will include, but are not limited to, genetics and congenital conditions, palliative/end-of-life care and complications of prematurity.

NURS 780. Financial Issues in Nursing Administration. 3 Credits.
This course focuses on planning, designing, and monitoring of a nursing budget with special emphasis on personnel, supply, and capital equipment budgeting. Specific financial problems of a nursing service department are addressed.

NURS 781. Advanced Pediatric Nursing: Practicum I Primary Care. 3 Credits.
This course provides the opportunity to practice clinical decision-making and primary care assessment skills within a primary care setting. Collaborative strategies will be emphasized related to health promotion/maintenance and the management of common health problems for pediatric patients and their families.

NURS 782. The Growth and Development of Children in the 21st Century. 3 Credits.
Physical, cognitive, psychosocial, psychosexual, and social-moral growth and development milestones from infancy through adolescence will be explored from a nursing perspective. Emphasis is on the assessment and management of the child within the context of environmental, cultural, and social factors affecting growth and development.

NURS 783. Management of Acute Pediatric Conditions I, 3 Credits.
An organ systems approach is used to explore the diagnosis and management of childhood disorders. The actions of the PNP and the needs of the child are considered across the continuum of care from urgent/primary care to acute care. Corequisite: NURS 784.

NURS 784. Advanced Pediatric Nursing: Practicum II. 4 Credits.
This course provides the opportunity to practice clinical decision-making and primary care assessment skills within a primary care setting. Collaborative strategies will be emphasized related to health promotion/maintenance and the management of common health problems for pediatric patients and their families.

NURS 785. Seminar in Pediatrics: Management of Chronic and Complex Clinical Conditions. 3 Credits.
This course explores issues associated with the management of chronic and complex clinical conditions for children. Emphasis is on the identification of clinical conditions requiring timely referral for diagnosis and treatment. Topics will include, but are not limited to, genetics, palliative/end-of-life care, and psychiatric/mental issues. Pre- or corequisite: NURS 783 and NURS 784.

NURS 786. Management of Acute/Critical Pediatric Conditions II. 3 Credits.
An organ systems approach is used to explore the diagnosis and management of childhood disorders. The actions of the PNP and the needs of the child are considered across the continuum of care from urgent/primary care to acute/critical care. Corequisite: NURS 788.

NURS 788. Advanced Pediatric Nursing: Practicum III. 3 Credits.
This course provides the opportunity to practice clinical decision-making and primary care assessment skills within a primary care setting. Collaborative strategies will be emphasized related to health promotion/maintenance and the management of common health problems for pediatric patients and their families. Pre- or corequisite: NURS 865 or NURS 816.

NURS 789. Advanced Neonatal Nursing Practicum III. 4 Credits.
The focus of this course is on the accurate diagnosis and management of high risk neonatal clinical problems. Pre- or corequisite: NURS 775.

NURS 795. Topics. 3 Credits.
Designed to provide the advanced student with an opportunity to investigate specific topics of current interest in the health services. Prerequisites: Ph.D. standing or permission of the instructor.

NURS 797. Independent Study. 1-3 Credits.
This course is for students completing an independent study or independent clinical hours.

NURS 798. Independent Clinical Study. 1-3 Credits.
This course focuses on clinical and/or research-related competencies of graduate nursing students. Students enroll on an as-needed basis as determined by the instructor or student. Prerequisites: Enrollment in the graduate nursing program and permission of the instructor.

NURS 800. Introduction to Healthcare Disparities, Vulnerable Populations, and Epidemiology. 3 Credits.
This course focuses on four integrative concepts including leadership, advocacy, practice, and translational research. Issues related to planning and providing care related to disparity and issues for vulnerable and underserved populations will be highlighted. The role of epidemiology will be explored.

NURS 801. Roles and Responsibilities for Transforming Practice. 3 Credits.
This course focuses on role expectations for advanced practice nurses; the intersection of models of leadership, advocacy, practice and translational research will be emphasized. Personal strategic planning of the students will be addressed as it applies to disparity issues and vulnerable and underserved populations.

NURS 802. The Business of Advanced Nursing Practice. 3 Credits.
This course will explore the business dimensions of practice including legal, safety, quality and financial. The course will focus on SWOT analysis, developing business plans and community assessments.

NURS 803. Leadership and Interprofessional Practice in Healthcare. 3 Credits.
This is an interprofessional course that explores organizational and structural opportunities and barriers within healthcare organizations through interprofessional collaboration and teamwork. Ethical issues will be explored. The focus is on the role of the healthcare provider as a leader of their profession within healthcare and on healthcare teams. Emphasis is on meeting the needs of underserved populations.

NURS 805. Application of Practice-Based Research Methods. 2 Credits.
This course focuses on the research process used to conduct practice-based research. It prepares advanced practice nurses to develop, implement, and evaluate programs that focus on improving healthcare outcomes.

NURS 806. Proposal Development and Database Management. 4 Credits.
This research course is designed to provide the Advanced Practice Nurse and Nurse Executive student with knowledge and skills regarding the design and methodology used to conduct a practice focused research study. Focus will be on human subjects protection, statistical analysis and database management. Prerequisites: NURS 805.

NURS 807. Informatics and Healthcare Technology. 3 Credits.
This course will cover the use of data in health care as well as other informatics applications. Students will explore healthcare technology used to improve the delivery and evaluation of care.
NURS 809. Advocacy for Healthcare Public Policy for Advanced Practice. 3 Credits.
This course will prepare the DNP to assume a leadership role in developing, implementing, and advocating for health care policy that results in quality, accessible, comprehensive health care for vulnerable populations.

NURS 810. Leadership in Complex Systems and Organizations. 3 Credits.
This course will focus on the leadership that comprises two types: informal and formal leadership. Competencies will include communication, knowledge of health care environment, leadership, professionalism, and business skills.

NURS 812. Evidence-Based Management for Quality Healthcare. 3 Credits.
The focus of the course is on the development of systems processes to ensure quality healthcare. The evidence-based model will be applied to organizational systems.

NURS 814. Competitive Resource Design and Utilization. 3 Credits.
This course focuses on the competitive design and utilization of organizational and human resources. Emphasis will be placed on the strategic process to ensure that resources are applied in ways to ensure high-quality care and excellent patient outcomes. The course will cover the business models for effective financial and personnel management of healthcare organizations. Analysis of the costs of care and quality of care will be performed.

NURS 816. DNP Executive Practicum I. 2-5 Credits.
This practicum focuses on the application of executive leadership skills in the practice environment. Focus will be on the role of the nurse executive and evidence-based research. Corequisite: NURS 805.

NURS 817. DNP Executive Practicum II. 2-5 Credits.
This experience focuses on the application of executive leadership skills in nursing. Focus will be on the role of the nurse executive and evidence-based research. Corequisite: NURS 806.

NURS 818. DNP Executive Practicum III. 3-5 Credits.
This practicum focuses on the application of executive leadership skills in the practice environment. Focus will be on the role of the nurse executive, evidence-based research and the use of healthcare technology. Corequisite: NURS 807.

NURS 819. DNP Executive Practicum IV. 3-5 Credits.
An examination of the application of executive leadership skills in the practice environment. Focus will be on the role of the nurse executive, evidence-based research, and practice dissemination.

NURS 865. DNP Clinical Practicum I. 2 Credits.
This course is designed to provide the Advanced Practice Nurse with the knowledge and skills to practice at an advanced level in a practice-based setting. Focus will be on enhanced clinical skills and evidence-based research. Corequisite: NURS 805.

NURS 866. DNP Clinical Practicum II. 2 Credits.
This course is designed to provide the Advanced Practice Nurse with the knowledge and skills to practice at an advanced level in a practice-based setting. Focus will be on evidence-based practice, teamwork, evidence-based research, and advanced clinical diagnostics. Corequisite: NURS 806.

NURS 867. DNP Clinical Practicum III. 3 Credits.
This course is designed to provide the Advanced Practice Nurse with the knowledge and skills to practice as an expert clinician, a program evaluator, and a team leader within a practice-based setting focusing on evidence-based practice. Healthcare technology will be explored.

NURS 868. DNP Clinical Practicum IV. 3 Credits.
This course is designed to provide the Advanced Practice Nurse with the knowledge and skills to practice as an expert clinician, a program evaluator, a team leader, and a change agent with emphasis on translational and evidence-based research. Corequisite: NURS 890.

NURS 890. DNP Nursing Capstone. 3 Credits.
This capstone course is designed to facilitate the ability of the advanced practice nurse to synthesize, translate, and disseminate practice-focused research findings and apply them to practice settings.

NURS 895. Topics. 1-3 Credits.
Designed to provide the advanced doctoral student with an opportunity to investigate specific topics of current interest in the health services. Prerequisites: DNP standing or permission of the instructor.

NURS 897. Independent Study. 1-3 Credits.
This course focuses on research-related competencies of graduate nursing students. Students enroll on an as-needed basis as determined by the instructor. Prerequisites: Enrollment in the graduate nursing DNP program and permission of instructor.

NURS 898. Independent Clinical Study. 1-3 Credits.
This course focuses on clinical and/or research-related competencies of DNP graduate nursing students. Students enroll on an as-needed basis as determined by the instructor. Prerequisites: Enrollment in the graduate nursing program and permission of instructor.

NURS 998. Master's Graduate Credit. 1 Credit.
This course is a pass/fail course for master's students in their final semester. It may be taken to fulfill the registration requirement necessary for graduation. All master's students are required to be registered for at least one graduate credit hour in the semester of their graduation.

NURS 999. Doctoral Graduate Credit. 1 Credit.
This course is a pass/fail course doctoral students may take to maintain active status after successfully passing the candidacy examination. All doctoral students are required to be registered for at least one graduate credit hour every semester until their graduation.