NURSING (NURS)

Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

500-level courses generally are included in both the undergraduate- and graduate-level course listings; however, specific course/section offerings may vary between semesters. Students are responsible for ensuring that they enroll in courses that are applicable to their particular academic programs.

Course Fees
Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (http://louisville.edu/bursar/tuitionfee).

NURS 500. Variables Impacting Health Care Delivery: A Global Context 3 Units
Description: Disparities in international health care delivery and the contributing variables will be explored. Culture-specific content is based on the country of study and is delivered by the interdisciplinary faculty. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 501. Pathophysiology 4 Units
Prerequisite(s): Department Permission.
Description: This course emphasizes the synthesis of preexisting knowledge of normal physiology to understand pathophysiological processes common among individuals and populations across the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 502. Pharmacology 3 Units
Prerequisite(s): Department Permission.
Description: This course is designed to provide nursing students with a sound basis for the clinical application of pharmacology. The basics of core drug knowledge, including pharmacotherapeutics, pharmacodynamics, and pharmacokinetics are covered. Emphasis is placed on learning drug classifications by clinical indication or body system with advanced understanding of potential drug interactions, pharmacogenetics and pharmacoeconomics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 503. Health Assessment 3 Units
Prerequisite(s): NURS 501 and NURS 502; admitted to MSN program.
Description: The focus of this course is on the assessment component of the nursing process. A systematic approach to interviewing and physical exam techniques across the lifespan (neonate to generic) is emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 504. Leadership & Health Policy 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): NURS 402.
Description: This course is designed to provide the student with theoretical principles and skills needed for leadership and professional role development within complex healthcare systems. Effective communication as a member of an interprofessional team, leadership focusing on the delivery of patient-centered care, strategies to provide quality cost-effective healthcare will be emphasized.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 506. Leadership/EBP/Policy 2 Units
Prerequisite(s): NURS 408 and NURS 608.
Description: This practicum will require students to formulate a leadership/management, policy or evidence-based project based on the assessed needs of their clinical site. With approval from their clinical preceptor and their instructor, students will apply knowledge and skills acquired in their master's course work in the completion of the project and the presentation of outcomes/findings.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 507. Transitions to Practice 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Admission to traditional baccalaureate program or MEPN program.
Description: This course will assist students to make the transition to professional nursing practice. Students will learn about current legislative and practice issues, discuss legal aspects of nursing practice, and prepare for the certification and licensure process.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 515. Research Scholar Program 1-3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): NURS 402.
Description: This course is designed to provide the student with acquisition of research skills through participation in an individual research project. The student will work with a faculty mentor to develop a research project, collect data, analyze the data, and present the findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 575. Introduction to Forensic Nursing 2 Units
Prerequisite(s): Must be admitted to the upper division undergraduate nursing program or graduate nursing program.
Description: An elective course to introduce the students to the role of the forensic nurse. This experimental course covers forensic principles as they relate to the living and field experiences are integrated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 600. Genetics  
Description: This course will integrate clinical applications of genomics including current ethical, legal and social issues and emphasize the responsibility of the advanced practical nurse. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 601. Primary Care I  
Prerequisite(s): NURS 605, NURS 655, and NURS 611. 
Corequisite(s): NURS 657. 
Description: This course is an introduction to primary care of the adolescent and adult. Emphasis is placed on health promotion, problem identification, and management of common health problems. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 602. Primary Care II  
Prerequisite(s): NURS 601. 
Description: This course provides an in-depth analysis of primary care of the adolescent and adult. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 603. Family Health  
Prerequisite(s): NURS 600, NURS 605, NURS 611, NURS 651, NURS 655, NURS 656, and NURS 657. 
Description: This course provides a foundation in family health concepts and family assessment for advanced practice nurses. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 604. Transition to Practice  
Prerequisite(s): Matriculation to specialty-specific clinical track course. 
Description: This course will assist completing students to make an easier transition to practice as advanced practice nurses. Students will focus on portfolio development, preparation for certification, and legislative/practice issues. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 605. Theoretical Application for Practice  
Description: This course explores the congruence of conceptual frameworks and theories from nursing and other disciplines and their use in clinical practice, education, research and administration. Leadership, quality improvement, translational science and organizational sciences for the continual improvement of nursing care of diverse populations are examined. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 606. Healthcare Systems  
Description: The U.S. healthcare system evolution, services, policy, and delivery are examined and compared politically, ethically, technologically, environmentally, and socioeconomically. Availability, access, regulation, and accountability are considered using systems theory. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 607. Foundation Concepts of Evidence Based Practice  
Prerequisite(s): NURS 652 or Biostatistics. 
Description: This course introduces the student to evidence based practice models and research design and methods. Students will learn the process of critically evaluating the literature for evidence based practice. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 608. Healthcare Systems and Economics  
Description: This course prepares the student to navigate complex health care systems. An emphasis is placed on principles of systems theory, healthcare economics, models of service delivery, quality and strategies for effective inter-professional collaboration. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 609. Research Design and Professional Writing  
Prerequisite(s): Admission to the MSN program or consent of Instructor. 
Description: This course is an overview of nursing research using multiple designs and methods. Ethical issues, data management and analysis of findings are included. Instruction in scientific writing is integrated. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 610. Nurse Educator Clinical/Practicum  
Grading Basis: Pass/Fail  
Prerequisite(s): NURS 605 and NURS 652; NURS 657 (or concurrent), ELFH 661 (or concurrent), and ELFH 683 (or concurrent). 
Description: This course is designed so that students gain clinical expertise with a population of interest and apply that knowledge to the nurse educator role. The integration of evidence based nursing practice and educational concepts in the clinical and classroom settings is emphasized. 
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 611. Graduate Pharmacology for Advanced Practice Nurses  
Prerequisite(s): Entrance to the Graduate Program in the School of Nursing. 
Description: This course will provide the nurse practitioner student with a sound basis for clinical application of pharmacology. Emphasis is placed on learning drug classifications by clinical indication or body symptoms. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 612. Philosophy of Science 3 Units
Prerequisite(s): Enrollment in the doctoral program.
Description: Overview and critical analysis of science as a way of knowing, including epistemological and ontological implications of differing approaches to knowledge generation.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 613. Introduction to Health Care Policy 3 Units
Description: This course provides the student with the understanding of the role of the nurse as leader and advocate in health policy at the local, state, regional, national and global level. Students will analyze and evaluate how policy influences health care delivery in the context of stakeholders, politics and economics.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 614. Project in Women's Health 2 Units
Prerequisite(s): NURS 602, NURS 604, NURS 615, and NURS 619.
Corequisite(s): NURS 602, NURS 604, NURS 615, and NURS 619.
Description: This clinical course places an emphasis on the role of the advanced practice nurse as a member of the health care team in obstetric and gynecologic settings. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of obstetric health problems for women and their families.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 615. Advanced Clinical Practice: Women's Health Nurse Practitioner, Clinical I 2 Units
Prerequisite(s): NURS 660 and NURS 661.
Corequisite(s): NURS 602, NURS 604, NURS 616, and NURS 619.
Description: A clinical course which focuses on comprehensive patient assessment, diagnosis and management of acute health problems for women and their families. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of acute health problems for women and their families.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 616. Women's Health Nurse Practitioner I 3 Units
Prerequisite(s): NURS 601, NURS 660, and NURS 661.
Corequisite(s): NURS 602, NURS 604, NURS 615, and NURS 619.
Description: This course provides the student with the understanding of the role of the nurse as leader and advocate in health policy at the local, state, regional, national and global level. Students will analyze and evaluate how policy influences health care delivery in the context of stakeholders, politics and economics.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 617. Advanced Clinical Practice: Women's Health Nurse Practitioner (WHNP), Clinical II 1 Unit
Prerequisite(s): NURS 604, NURS 615, NURS 616, and NURS 619.
Corequisite(s): NURS 618.
Description: This clinical course places an emphasis on the role of the advanced practice nurse as a member of the health care team in obstetric and gynecologic settings. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of obstetric health problems for women and their families.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 618. Women's Health Nurse Practitioner II 4 Units
Prerequisite(s): NURS 604, NURS 615, and NURS 616.
Corequisite(s): NURS 617.
Description: This is the second in a series of four courses (two didactic; two clinical) which assist students to develop the role of Women's Health Nurse Practitioner. The focus of this course is on the diagnosis and management of complex health issues affecting multicultural women across the life-span. It emphasizes the application of concepts, principles and skills needed to provide care for more complex obstetric and gynecologic health processes and problems of adolescents and adults frequently encountered by Women's Health Nurse Practitioners (WHNP's). The focus of this course is developing differential diagnoses for abnormal conditions, recognizing those issues within the scope of practice for WHNP's, and when referral to other health care providers is warranted.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 619. Advanced Skills Laboratory: Women's Health Nurse Practitioner 1 Unit
Prerequisite(s): NURS 602, NURS 660, and NURS 661.
Corequisite(s): NURS 604, NURS 615, and NURS 616.
Description: This laboratory course places an emphasis on advanced psychomotor skills used by Women's Health Nurse Practitioners across a variety of obstetric and gynecologic settings. These skills are learned and practiced in the classroom setting before application in the clinical setting.
For class offerings for a specific term, refer to the Schedule of Classes.

NURS 622. Advanced Clinical Practice: Adult Clinical Nurse Specialist 6 Units
Prerequisite(s): NURS 600, NURS 605, NURS 611, NURS 615, NURS 655, NURS 657.
Corequisite(s): NURS 653.
Description: Explores the theoretical and practice applications of the Adult CNS in a variety of settings. The clinical practicum is designed by faculty and students to promote CNS competencies in the sphere of influence: patient/client.
For class offerings for a specific term, refer to the Schedule of Classes.
NURS 623. Advanced Clinical Practice: Adult Clinical Nurse Specialist II

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Provides a theoretical foundation for evidence based clinical practice skills necessary to implement the nurse practitioner role in a holistic manner that will advance nursing knowledge and the health of patients.</td>
<td>NURS 622.</td>
<td>NURS 624.</td>
</tr>
</tbody>
</table>

NURS 624. Advanced Clinical Practice: Adult-Gerontology Primary Care Nurse Practitioner I

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>The purpose of this course is to provide clinical experience in comprehensive patient assessment, diagnosis and management of common primary health problems in adolescent, adult, and geriatric patient populations.</td>
<td>NURS 656.</td>
<td>NURS 652, NURS 655, NURS 658, and NURS 659.</td>
</tr>
</tbody>
</table>

NURS 625. Advanced Clinical Practice: Adult-Gerontology Primary Care Nurse Practitioner II

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>The purpose of this course is to provide advanced clinical experience in comprehensive patient assessment, diagnosis and management of common and complex primary health problems in adolescent, adult, and geriatric patient populations. Students will strengthen and enhance their advanced practice skills with preceptor supervision.</td>
<td>NURS 624.</td>
<td>NURS 629.</td>
</tr>
</tbody>
</table>

NURS 629. Advanced Health Assessment of the Neonate

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>This course provides a foundation in the cellular processes upon which neonatal pathophysiology occurs. Synthesis of topics in human embryology is the foundation for understanding specific neonatal pathophysiologic processes. Common pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course are diagnostic reasoning skills needed to manage the care of a critically ill neonate. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the appropriate diagnosis and differential diagnoses, identify appropriate diagnostic tests and exams to determine the appropriate diagnosis in neonates with a variety of problems.</td>
<td>NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 652, NURS 655, NURS 658, and NURS 657.</td>
<td>NURS 637.</td>
</tr>
</tbody>
</table>

NURS 630. Neonatal Pathophysiology

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>This course is an in-depth study of neonatal assessment techniques and normal versus abnormal variations seen in the newborn. Emphasis is on the clinical presentation of the newborn, utilizing concepts from development anatomy and physiology as well as intrauterine factors that may alter findings. Students will learn advanced physical examination, gestational age, and neurobehavioral assessment skills specific to the neonate.</td>
<td>Admission to the MSN program, Neonatal Nurse Practitioner track.</td>
<td>NURS 633.</td>
</tr>
</tbody>
</table>

NURS 633. Advanced Neonatal Pathophysiology and Clinical Management I

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>This course provides a theoretical foundation for evidence based neonatal nurse practitioner practice. Clinical management of cardiovascular, gastrointestinal, integumentary and hematologic systems will be the focus.</td>
<td>NURS 629, NURS 633, and NURS 600.</td>
<td>NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 652, NURS 655, NURS 658, and NURS 659.</td>
</tr>
</tbody>
</table>

NURS 634. Advanced Clinical Practice: Neonatal NP II

<table>
<thead>
<tr>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>The focus of this clinical synthesis is the synthesis of theoretical and evidence-based practice skills necessary to implement the nurse practitioner role in a holistic manner that will advance nursing knowledge and the health of patients.</td>
<td>NURS 629, NURS 633, and NURS 600.</td>
<td>NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 652, NURS 655, NURS 658, and NURS 659.</td>
</tr>
</tbody>
</table>
NURS 635. Advanced Neonatal Pathophysiology and Clinical Management II 4 Units
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658.
Corequisite(s): NURS 637.
Description: This course is the second of two courses that provides the student with didactic preparation in the concepts of advanced neonatal pathophysiology based upon normal neonatal physiology. Synthesis of topics in human embryology, genetics, and advanced neonatal pathophysiology and clinical management provides the foundation for understanding complex neonatal pathophysiologic processes. Complex pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course is the diagnostic reasoning needed to manage the care of the critically ill neonate. Topics addressed in course include those recommended to prepare the student for national certification as a Neonatal Nurse Practitioner.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 636. Neonatal Nurse Practitioner Residency I 3 Units
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658 (or concurrent).
Description: The purpose of the NNP Residency is to provide neonatal nurse practitioner students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICU’s to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.

Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 637. Neonatal Nurse Practitioner Residency II 3 Units
Prerequisite(s): NURS 604, NURS 605, NURS 607, NURS 608, NURS 613, NURS 629, NURS 633, NURS 636, NURS 652, NURS 655, NURS 657, and NURS 658.
Corequisite(s): NURS 635.
Description: This is the second and final residency course for NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICU’s to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.

Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 638. Advanced Psychiatric Assessment and Clinical Interviewing Techniques 1 Unit
Description: The focus this course is the use of clinical interviewing techniques and psychiatric assessment of in determining the mental health status of clients throughout the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 639. Advanced Psych Nurse Practitioner Mental Health Assessment Clinical 1 Unit
Prerequisite(s): NURS 638 and NURS 647.
Description: Course focuses on initial implementation of the APPMHN role: psychiatric assessment and interviewing strategies utilizing the current Diagnostic and Statistical Manual for diagnosing psychopathology. The practicum focuses on a lifespan approach with select clients in multicultural contexts who are at risk for or are experiencing dysfunction in the area of mental health.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 641. Advanced Psychiatric Mental Health Nurse Practitioner I: Theory 3 Units
Description: Course introduces the advanced practice role with a focus on at least 3 modes of therapy across the lifespan and in multicultural contexts. Relevant literature, professional practice guidelines and current best practice standards will guide the selection of intervention models across the continuum of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 642. Advanced Psychiatric Mental Health Nurse Practitioner II: Theory 3 Units
Prerequisite(s): NURS 638, NURS 641, and NURS 645.
Corequisite(s): NURS 646.
Description: Course provides in-depth study of PMH interventions for clients with complex or co-morbid diagnoses. A lifespan approach encompassing diverse and multicultural contexts will be utilized. Relevant literature, professional practice guidelines and current best practice standards will guide the selection of intervention models across the continuum of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 645. Advanced Psychiatric Mental Health Nurse Practitioner I: Clinical 3 Units
Prerequisite(s): NURS 638, NURS 647, and NURS 649.
Corequisite(s): NURS 641.
Description: Course focuses on initial implementation of the APPMHN role: psychiatric assessment, diagnosis and intervention strategies including psychopharmacology. The practicum focuses on a life span approach with select clients in multicultural contexts who are at risk for or are experiencing dysfunction in the area of mental health.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 646. Advanced Psychiatric Mental Health Nurse Practitioner II: Clinical 2 Units
Prerequisite(s): NURS 638, NURS 641, NURS 647, and NURS 649.
Corequisite(s): NURS 642.
Description: Course continues focus on implementation of APPMHN role. The practicum focuses on PMH interventions using a lifespan approach with individuals, families, and/or groups in diverse multi-cultural contexts who are experiencing co-morbid of complex psychiatric diagnoses. A variety of relevant intervention models will be utilized across the continuum of care.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 647. Advanced Psychopathology Across the Lifespan 2 Units
Description: This course is a comprehensive study of essential developmental and psychopathology across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic, and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 648. Advanced Clinical Assessment: Psych/Mental Health Nursing 3 Units
Prerequisite(s): Basic physical/health assessment skills are necessary; formal basic courses or continuing education courses in physical health assessment are acceptable.
Description: Builds upon basic assessment skills. The nurse's knowledge will be expanded to enable the development of the advanced practice role. Critical thinking and communication skills will be enriched by an accurate interpretation of a holistic approach to advanced clinical assessment of the adult.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 649. Advanced Psychopharmacology Across the Lifespan 2 Units
Prerequisite(s): NURS 611 (or concurrent).
Description: This course is a comprehensive study of essential psychopharmacology used across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic, and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 651. Evidence Based Nursing for Advanced Practice 3 Units
Prerequisite(s): NURS 652 and graduate-level Statistics (applied descriptive & inferential statistics); NURS 605 (or concurrent).
Description: Analysis of the value of research in advanced nursing practice. Focus is on the research theory and process, ethics, critique of the literature, and dissemination of findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 652. Advanced Statistical Application 3 Units
Prerequisite(s): Admission to the Graduate Program in Nursing.
Description: This web-enhanced course focuses on the advanced practice roles of educator, consultant, researcher, leader, and expert practitioner. Scope of practice, credentialing, reimbursement and future issues are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 653. Advanced Practice Roles 2 Units
Prerequisite(s): NURS 611 and graduate-level Statistics (applied descriptive & inferential statistics); NURS 605 (or concurrent).
Description: Analysis of the value of research in advanced nursing practice. Focus is on the research theory and process, ethics, critique of the literature, and dissemination of findings.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 654. Informatics in Health Care 3 Units
Description: National Nursing Informatics (NI) competencies will be covered as well as core NI principles, knowledge acquisition, process, generation and dissemination. Students will be prepared at the level of informatics innovators.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlacess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 655. Advanced Pathophysiology: Clinical Decision Making 3 Units
Prerequisite(s): Understanding of normal anatomy and physiology as well as basic pathophysiology.
Description: The focus of this foundational course is on understanding pathological processes common among individuals of all ages. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 656. Advanced Clinical Assessment 3 Units
Prerequisite(s): NURS 655.
Description: This course builds upon the basic critical thinking and psychomotor skills that professional nurses use in client care. Emphasis is on the physical, psychosocial, and cultural assessment of individuals and families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 657. Health Promotion and Disease Prevention in Culturally Diverse and Vulnerable Populations. 3 Units
Prerequisite(s): Enrollment in master's degree program.
Description: This course provides an overview of health behavior at the level of the individual family, community and clinical/aggregate populations. The effects of individual health beliefs, cultural variables, readiness for change, community environment, and health disparities will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 658. Advanced Neonatal Pharmacology 3 Units
Prerequisite(s): NURS 605, NURS 607, NURS 608, NURS 613, NURS 633, NURS 636, NURS 652, and NURS 655.
Corequisite(s): NURS 629.
Description: This course provides a basis for understanding the pharmacokinetics and actions of specific groups of drugs commonly used in neonatal advanced nursing practice. Emphasis is placed on pharmacological action of drugs, side effects, appropriate dosing, monitoring, drug interactions and guidelines for use of drugs in the critically ill neonate from admission to the NICU to discharge. Legal and ethical considerations of prescriptive practice are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 659. Life-Span Issues in Pathophysiology for Clinical Decision Making 2 Units
Description: Will provide the student with an opportunity to examine and apply pathophysiological concepts across the lifespan utilizing critical thinking and decision-making by the graduate level nurse.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 660. Family Nursing 2 Units
Prerequisite(s): NURS 605, NURS 655, NURS 656, and NURS 611.
Description: This course is an introduction to Advanced Family Practice Nursing. It provides a theoretical and practical base for the health care management of childbearing and childrearing families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 661. Advanced Clinical Practice: Family Nurse Practitioner Clinical I 3 Units
Prerequisite(s): NURS 656 and NURS 661.
Description: The clinical experience focuses on comprehensive patient assessment, diagnosis and management of acute health problems for individuals and their families.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 662. Advanced Clinical Practice: Family Nurse Practitioner Clinical II 3 Units
Prerequisite(s): NURS 601 and NURS 661.
Description: The clinical experience focuses on comprehensive patient assessment, diagnosis and management of chronic health problems for individuals and their families.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 663. Advanced Clinical Practice: Family Nurse Practitioner 2.5 Units
Prerequisite(s): NURS 601, NURS 602, and NURS 661.
Description: This clinical experience focuses on synthesis of theoretical, scientific, and clinical knowledge as well as practice-based skills in the diagnosis and management of existing and potential health problems.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 664. Common Health Problems of the Pediatric Client 1 Unit
Prerequisite(s): NURS 601, NURS 605, NURS 655, NURS 656, NURS 657, and NURS 611.
Description: Focus is on the Family Nurse Practitioner's role in the identification and management of selected acute, chronic and emergent health problems of the pediatric client.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 665. Primary Care of the Aged: Leadership and Practice 5 Units
Prerequisite(s): NURS 600, NURS 605, NURS 611, NURS 615, NURS 655, NURS 656, and NURS 657; or National Certification as FNP or ANP.
Description: Develop health assessment and health promotion skills to determine age-related changes in older adults.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 666. Primary Care of Older Adults 2 Units
Prerequisite(s): NURS 611, NURS 655, and NURS 656.
Description: This course provides an in-depth analysis of primary care of the older adult. Emphasis is on assessment, interpretation, and management of age-related functional and cognitive changes. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative inter-professional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 667. Applied Geriatric Pharmacology in Nursing Practice 1 Unit
Prerequisite(s): NURS 611, NURS 655, and NURS 656.
Description: This course builds principles and content of advanced nursing pharmacology. It is designed to provide the adult gerontology practitioner student with knowledge of pharmacokinetics, pharmacodynamics, and polypharmacy as related to the older adult.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 670. Cancer Epidemiology and Pathophysiology 2 Units
Prerequisite(s): NURS 550 or NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656; NURS 653 (or concurrent).
Description: This course provides an opportunity to synthesize cancer-specific epidemiology and pathophysiology concepts for critical thinking and decision-making by the nurse in an advanced practice role in caring for patients with cancer and their families across the cancer-care continuum.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 671. Evidence-Based Cancer Treatment 3 Units
Description: This course provides the student an opportunity to integrate knowledge and principles of cancer treatment, associated responses and symptom management, and the late-effects of cancer treatment. Emphasis is placed on current theory and research in examining evidence-based nursing interventions to improve outcomes for clients with cancer and their families.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 672. Advanced Oncology Clinical Practice I 6 Units
Prerequisite(s): NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656; NURS 653 (or concurrent) and NURS 671 (or concurrent).
Description: This course entails didactic classroom instruction and a mentored clinical practicum, which will provide students an opportunity to synthesize and apply knowledge in the clinical management of complex physical, cognitive, and psychosocial responses to cancer and its treatment.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 673. Advanced Oncology Clinical Practice II 7 Units
Prerequisite(s): NURS 605, NURS 611, NURS 651, NURS 655, and NURS 656; NURS 653 (or concurrent), NURS 671 (or concurrent), and NURS 672 (or concurrent).
Description: This didactic and clinical course will provide the student with an opportunity to develop expertise in clinical judgment and consultation, facilitation of learning; intra-and inter-disciplinary collaboration; systems thinking and care-delivery models; and advocacy and moral agency. A case-study approach will be used to analyse and systematically evaluate the multiple roles of the advanced oncology nurse.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 674. Adult-Gerontology Acute Care Nurse Practitioner I 4 Units
Prerequisite(s): NURS 611, NURS 655, and NURS 656.
Description: This course is an introduction to the acute care of adult-gerontology patients. Emphasis is placed on health promotion, health protection, problem identification, and management of complex health problems. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 675. Advanced Clinical Practice: Adult-Gerontology Acute Care Practitioner, Clinical I 3 Units
Prerequisite(s): NURS 611, NURS 655, and NURS 656.
Description: This clinical course places an emphasis on the assessment, diagnosis and collaborative management of adult clients who are acutely/critically ill or experiencing an exacerbation of a chronic health problem. The clinical focus is on the Adult-Gerontology Acute Care Nurse Practitioner performing health assessments, interpretation of data and the implementation of a collaborative plan of care.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 676. Adult-Gerontology Acute Care Practitioner II 4 Units
Prerequisite(s): NURS 674.
Description: This course provides an in-depth analysis of adult acute-gerontology care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute complex health problems. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 677. Advanced Clinical Practice: Adult-Gerontology Acute Care Practitioner, Clinical II  3 Units
Prerequisite(s): NURS 675.
Description: This course emphasizes advanced assessment, diagnosis, and collaborative management of adult clients who are acutely/critically ill or experiencing an exacerbation of a chronic health problem. The focus is on the Adult-Gerontology Acute Care Nurse Practitioner in performing complex health assessments, interpretation of data, and the implementation of a collaborative plan of care. This course builds on the clinical experience in NURS 675.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 690. Special Topics  0.5-15 Units
Prerequisite(s): Consent of instructor.
Description: Selected topics in nursing and health care. Semester topic will be indicated in Schedule of Courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 696. Independent Study  1-3 Units
Prerequisite(s): Departmental approval.
Description: Provides opportunity for the student, under the supervision of a departmental faculty member, to develop objectives and protocol for independent work related to the practice of nursing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 698. Research Project  2 Units
Prerequisite(s): NURS 651.
Description: Provides the student an opportunity to develop, implement and present results of a research study of limited scope.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 699. Thesis  1-6 Units
Prerequisite(s): NURS 651.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 700. Theoretical Basis of Nursing  3 Units
Prerequisite(s): Admission to PhD Nursing; graduate-level Philosophy of Science course (or concurrent).
Description: The course examines the theoretical basis of nursing science and facilitates the refinement of critical skills necessary for evaluating theories, synthesizing theoretical components into conceptual models or middle range theories, and developing testable hypotheses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 702. Philosophy of Science  3 Units
Prerequisite(s): Admission to PhD Nursing; BSN-PhD students must have 18 credits of required MSN courses completed.
Description: This course examines the fundamental key questions and important themes in the philosophy of science and their influence on knowledge development of nursing.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 710. Research Methodology I: Qualitative Research Methods  3 Units
Prerequisite(s): NURS 700 and NURS 702.
Description: This course examines qualitative methods as a scientific approach for building nursing knowledge. Qualitative research methods will be analyzed and applied, and ethical issues in conducting qualitative research will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 711. Research Methodology II: Quantitative Design  3 Units
Prerequisite(s): NURS 700 and NURS 702; one doctoral-level stats course; second doctoral-level stats course (or concurrent).
Description: This course examines quantitative methods as a scientific approach for building nursing knowledge. Quantitative research methods will be analyzed and applied, and ethical issues in conducting quantitative research will be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 712. Research Methodology III: Nursing Measurement  3 Units
Prerequisite(s): NURS 711; two doctoral-level statistics courses.
Description: This course focuses on measurement of health-related phenomena. Measurement methods and instrument development are discussed. The psychometric and biometric properties of instruments used in research are evaluated.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 713. Research Methods Practicum  2 Units
Prerequisite(s): NURS 710 and NURS 711; NURS 712 (or concurrent).
Description: This guided practicum in the area of research methodology will allow students to gain mastery of a specific methodology that a PhD prepared nurse scientist may be expected to employ.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 714. Research Methodology IV: Analysis of Existing Data 3 Units
Prerequisite(s): NURS 712; two doctoral-level statistics courses.
Description: This course focuses on the analysis, interpretation, and presentation of existing quantitative data. Students will develop skills in the application of a variety of quantitative analysis strategies using existing data. Students will identify hypotheses and/or research question, test them using statistical methods, and interpret the results.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 720. Seminar in Advanced Leadership 3 Units
Description: Students will synthesize leadership concepts and theories with personal, professional, and organizational values within the changing political, ethical and sociocultural context in which leadership is practiced.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 721. Leadership Practicum 1 Unit
Prerequisite(s): NURS 720.
Description: This guided practicum for nursing leadership and education will allow students to gain mastery of a leadership role PhD prepared nurse scientists may be expected to fulfill.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 725. Leadership and Health Policy for the Doctorally Prepared Nurse 3 Units
Description: This course provides an overview of leadership and political theories applicable to a variety of organizational settings. The influence of socio-cultural, economic, political, and ethical issues on leadership and policy is examined. The nurse’s role in research, administration and advanced practice in developing and evaluating health policy is explored.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 730. Health Policy: An Evidence-Based Approach 3 Units
Prerequisite(s): NURS 700 or by permission of the instructor.
Description: This course will examine the role of the nurse scientist in analyzing and developing health policy using an evidence-based framework.
Note: Foundational to NURS 731.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 731. Health Policy Practicum 1 Unit
Prerequisite(s): NURS 730.
Description: This guided practicum in the area of nursing health policy will allow students to gain mastery of a role a PhD nurse scientist may be expected to fulfill.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 735. PhD Seminar I 1-3 Units
Description: This is the first of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 736. PhD Seminar II 1 Unit
Prerequisite(s): NURS 735.
Description: This is the second of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 737. PhD Seminar III 1 Unit
Prerequisite(s): NURS 736.
Description: This is the third of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 738. PhD Seminar IV 1 Unit
Prerequisite(s): NURS 737.
Description: This is the last of four courses that examine issues critical to socialization into the role of a nurse scientist.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 740. Advanced Pharmacology 3 Units
Prerequisite(s): Enrollment in the doctoral program.
Description: This course is designed to provide advanced practice nursing students with a sound basis for the clinical application of pharmacology. Core drug knowledge, including pharmacotherapeutics, pharmacodynamics and pharmacokinetics are discussed. Emphasis is placed on learning drug classifications by clinical indication with an advanced understanding of potential drug interactions, side effects, and goals of pharmacologic therapy.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### NURS 741. Advanced Pathophysiology
**Description:** This course provides the student an opportunity to synthesize pathophysiological concepts essential for critical thinking and clinical decision-making by the nurse in an advanced practice role. The focus of this foundational course is on understanding pathological processes common among individuals of all ages by using knowledge from genetics, the biophysical and psychosocial sciences, and current research.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 4

### NURS 742. Advanced Physical Assessment
**Description:** This advanced health assessment course will focus on both normal and normal variant finding in the population of patients from adolescence to geriatrics.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 743. Epidemiology
**Description:** This course will focus on the theory and concepts of epidemiology and social determinants of health, and how they can be applied to the field of nursing. This course will apply and integrate the principles and tools of epidemiology to the decision-making in a health care environment. The student will identify the different study designs and how each of them can be applied to answer specific questions related to population-based health care. Emphasis will also be placed on the application of appropriate analytic methods for these different designs and questions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 744. Synthesis and Evaluation of Evidence in Practice
**Description:** In this advanced course, students will critically evaluate, translate, and apply to practice evidence from a variety of sources. An emphasis is placed on the synthesis and dissemination of evidence.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 745. Health Information Technology
**Description:** This course provides an introduction to the use of information technology in health care and health care systems. Factors that facilitate or prevent successful use of health care technology will be examined.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 746. Program Development & Evaluation
**Prerequisite(s):** NURS 743 and NURS 744.
**Description:** This course explores techniques and strategies used for designing, implementing and evaluating programs. Students will assess population needs, develop appropriate goals, determine intervention strategies and resource needs, and implement evaluation mechanisms.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 747. Finance Management
**Description:** This course focuses on the financial and business aspects of health care delivery. An emphasis is on the instruments and concepts used for analysis of practice initiatives and the development and implementation of effective plans to improve health outcomes.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 2

### NURS 748. Transformational Leadership
**Description:** This advanced course focuses on the application of leadership and political theories in health care delivery. Students will apply transformational leadership skills to influence health policy change and serve as an advocate.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 749. The Business of Healthcare
**Term Typically Offered:** Fall Only

**Description:** This course provides knowledge in the foundations of practice management and revenue operations for the practicing medical provider. Students will gain understanding of practice reimbursement models, the impact of data management and performance indicators on reimbursement, and maintaining awareness of the financial impact of practice decisions.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 750. DNP Project I: Project Inception
**Grading Basis:** Pass/Fail

**Description:** In this course students will identify an area of interest and develop a DNP Project. The DNP Project will require the student to synthesize the evidence and apply the competencies learned throughout the curriculum to improve outcomes in health care systems. Students will have their completed proposal approved and will submit the proposal to the IRB as applicable.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 751. DNP Project II: Project Implementation
**Grading Basis:** Pass/Fail

**Prerequisite(s):** NURS 750.

**Description:** In this course students will implement their DNP Project. The DNP Project will require the student to synthesize the evidence and apply the competencies learned throughout the curriculum to improve outcomes in health care systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3

### NURS 752. DNP Project III: Project Evaluation, Analysis and Dissemination
**Grading Basis:** Pass/Fail

**Prerequisite(s):** NURS 751.

**Description:** In this course students will complete an evaluation and analysis of the DNP Project. Students will disseminate the completed DNP Project. The DNP Project will require the student to synthesize and apply the competencies learned throughout the curriculum to improve outcomes in health care systems.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**Units:** 3
NURS 753. Adolescent Well Child Theory  
Prerequisite(s): NURS 740 and NURS 741.  
Description: This course is an introduction to advanced practice nursing. It provides a theoretical and practical base for the health care management of pediatric and adolescent clients. Emphasis is on the analysis and the implementation of the advanced practice nurse’s role in the identification, prevention, and management of common pediatric health concerns.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 754. Clinical Reasoning in Advanced Practice Nursing  
Prerequisite(s): NURS 740, NURS 754.  
Description: This course will prepare the advanced practice nurse to make clinical decisions using a variety of decision making modalities. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 755. Diagnosis and Management of Adult Health in Primary Care  
Prerequisite(s): NURS 740 and NURS 741.  
Description: This course provides an in depth analysis of primary care of the adolescent and adult. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and management of acute and chronic conditions commonly encountered in primary care. The advanced practice nurse’s role will be examined both as an individual practitioner and as a member of a collaborative inter-professional healthcare team.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 760. Gerontology Pharmacology  
Prerequisite(s): NURS 742.  
Description: This course builds principles and content of advanced nursing pharmacology. It is designed to provide the adult gerontology nurse practitioner student with knowledge of pharmacokinetics, pharmacodynamics, and polypharmacy as related to the older adult.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 761. Pediatric & Adolescent Well Child Theory  
Prerequisite(s): NURS 740.  
Description: This course is an introduction to advanced practice nursing. It provides a theoretical and practical base for the health care management of pediatric and adolescent clients. Emphasis is on the analysis and the implementation of the advanced practice nurses role in the identification, prevention, and management of common pediatric health concerns.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 762. Diagnosis & Management of Pediatrics in Primary Care  
Prerequisite(s): NURS 741.  
Description: This course provides in depth analysis of primary care of the child. Emphasis is on differentiating signs and symptoms, formulating diagnoses, and management of acute and chronic conditions commonly encountered in primary care. The advanced practice nurses role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.

NURS 758. Diagnosis and Management of Mental Health in Primary Care  
Prerequisite(s): NURS 742 and NURS 754.  
Description: The focus of this course is on the mental health and well-being of individuals across the life-span. It emphasizes the application of concepts, theories, principles, and research findings needed to provide care for common psychiatric conditions encountered in the primary care setting. The focus of this course is identification of psychiatric conditions as well as treatment strategies and the recognition of situations where a referral is needed.  
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 763. Advanced Neonatal Physiology & Pathophysiology I 3 Units
Prerequisite(s): NURS 765.
Description: This course provides a foundation in the cellular processes upon which neonatal pathophysiology occurs. Synthesis of topics in human embryology is the foundation for understanding specific neonatal pathophysiologic processes. Common pathophysiologic neonatal disease and how they deviate from normal physiology are presented using a systems approach.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 764. Neonatal Diagnostic Reasoning I 1 Unit
Prerequisite(s): NURS 785.
Description: An advanced health assessment class emphasizing the processes and techniques of diagnostic reasoning with critically-ill neonates. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the differential diagnosis, identify appropriate diagnostic tests and exams, and determine the appropriate diagnosis and treatment in neonates with a variety of problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 765. Advance Neonatal Physiology & Pathophysiology II 3 Units
Prerequisite(s): NURS 763.
Description: This course is the second of two courses that provides the student with didactic preparation in the concepts of advanced neonatal pathophysiology based upon normal neonatal physiology. Synthesis of topics in human embryology, genetics, and advanced neonatal pathophysiology and clinical management provides the foundation for understanding complex neonatal pathophysiologic processes. Complex pathophysiologic neonatal diseases and how they deviate from normal physiology are presented using a systems approach. Integrated into the course is the diagnostic reasoning needed to manage the care of a critically ill neonate. Topics addressed in this course include those recommended to prepare the student for national certification as a neonatal nurse practitioner.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 766. Neonatal Diagnostic Reasoning II 1 Unit
Prerequisite(s): NURS 765.
Description: An advanced health assessment class emphasizing the processes and techniques of diagnostic reasoning with critically-ill neonates with diagnoses of advanced complexity and builds upon skills learned and applied Neonatal DDX I. Students will evaluate presenting clinical signs in the neonate requiring intensive care, determine the differential diagnosis, identify appropriate diagnostic tests and exams, and determine the appropriate diagnosis and treatment in neonates with a variety of problems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 767. Neonatal Residency I 3 Units
Prerequisite(s): NURS 765.
Description: The purpose of the NNP Residency is to provide neonatal nurse practitioner students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows development of increased skill and independence in decision-making as a NNP. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 768. Neonatal Residency II 3 Units
Prerequisite(s): NURS 767.
Description: This is the second clinical residency course for the NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to advance the knowledge and skills acquired in previous coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 769. Neonatal Residency III 3 Units
Prerequisite(s): NURS 768.
Description: This is the third and final clinical residency course for NNP students. The purpose of the NNP Residency is to provide students with learning opportunities that facilitate continued development in the Neonatal Nurse Practitioner role. Students will work with preceptors in a Level III-IV NICUs to apply the knowledge an skills acquired in previous residency semesters and coursework. This course provides the student with an immersion into the Neonatal Nurse Practitioner (NNP) role that allows them to advance their skills and independence in decision-making as a NNP working with infants with increasingly complex medical problems. Students are expected to identify, interpret, and apply current evidence to their practice and clinical decision-making in the care of critically ill infants.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 770. Advanced Psych Assessment & Clinical Interview 2 Units
Prerequisite(s): NURS 742.
Description: The focus of this course is the use of clinical interviewing techniques and psychiatric assessment of determining the mental health status of clients throughout the lifespan.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 771. Psychopathology  2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course is a comprehensive study of essential developmental and psychopathology across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 772. Psychopharmacology  2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course is a comprehensive study of essential psychopharmacology used across the lifespan. Clinical theory, standards of practice, neurobiology, genomic, genetic and environmental influences will be examined in multicultural contexts.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 773. Management of Psychiatric/Mental Health Conditions: Foundation of Individual Psychotherapy  3 Units
Prerequisite(s): NURS 771 and NURS 772.
Description: This course will introduce the role and foundations essential to safe and effective practice for the psychiatric-mental health nurse practitioner (PMH-NP). The role of the PMH-NP in delivery of culturally relevant care to persons with psychiatric-mental health concerns will be examined. Evidence-based individual psychotherapies will be explored through relevant literature, professional guidelines and current best practices.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 774. Diagnosis and Management in Psych/Mental Health: Group Psychotherapy and Care of Special Populations  3 Units
Prerequisite(s): NURS 773.
Description: This course will expand on the role and foundations essential to safe and effective practice for the psychiatric-mental health nurse practitioner (PMH-NP). The role of the PMH-NP in delivery of culturally relevant care to persons with psychiatric-mental health concerns in the areas of group therapy, mental health promotion/mental illness prevention, and selected psychotherapies will be examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 775. Diagnosis and Management of Psychiatric/Mental Health Conditions  3 Units
Prerequisite(s): NURS 774.
Description: This course will expand on the role and foundations essential to safe and effective practice for the psychiatric-mental health nurse practitioner (PMH-NP). Global issues in mental health including access to care and delivery of mental health care within the United States healthcare system will be discussed. The role of the PMH-NP delivery of evidence-based, culturally competent care to persons with complex mental health needs and barriers to care are examined.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 779. Diagnosis & Management in Acute Care I  4 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course provides in-depth analysis of adult-gerontology acute care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute, complex and/or critical health problems of critically ill adolescents and adults. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 780. Procedures & Diagnostics for Acute Care  2 Units
Prerequisite(s): NURS 740 and NURS 741.
Description: This course introduces the advanced psychomotor and diagnostic skills used to procedures that are commonly performed in the acute care setting. Emphasis is placed on clinical indications, procedural techniques, and potential complications. Skills are taught in laboratories with a hands-on approach before application in the clinical setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 781. Diagnosis & Management in Acute Care II  3 Units
Prerequisite(s): NURS 779.
Description: This course provides an in-depth analysis of adult-gerontology care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute complex health problems. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative interprofessional healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 783. Diagnosis & Management in Acute Care III  1 Unit
Prerequisite(s): NURS 781.
Description: This course provides an in-depth analysis of adult-gerontology acute care. Emphasis is placed on differentiating signs and symptoms, formulating diagnoses, and developing culturally competent plans of care for acute, complex, and/or critical health problems of critically ill adolescents and adults. The advanced practice nurse's role will be examined both as an individual practitioner and as a member of a collaborative healthcare team.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 784. Advanced Neonatal Pharmacology  3 Units
Prerequisite(s): NURS 741.
Description: This course provides a basis for understanding the pharmacokinetics and actions of specific groups of drugs commonly used in neonatal advanced nursing practice. Emphasis is placed on pharmacological action of drugs, side effects, appropriate dosing, monitoring, drug interactions and guidelines for use of drugs. Legal and ethical considerations of prescriptive practice are also addressed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
NURS 785. Advanced Neonatal Assessment 3 Units
Prerequisite(s): NURS 741.
Description: This course is an in-depth study of neonatal assessment techniques and normal versus abnormal variations seen in the newborn. Emphasis is on the clinical presentation of the newborn utilizing concepts from developmental anatomy and physiology as well as intrauterine factors that may alter findings. Students will learn advanced physical examination, gestational age, and neurobehavioral assessment skills specific to the neonate.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 786. Human Embryology and Genetics 3 Units
Description: This course provides the student with basic knowledge of the principles of human embryology and genetics. The genetic and embryological basis for congenital malformations in the high risk neonate will be discussed. Associated fetal physiologic principles will be correlated with embryological development.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 787. Clinical Practicum I 2 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 740 and NURS 741.
Description: The purpose of this course is to provide clinical experience in comprehensive patient assessment, diagnosis and management of common health problems among select patient populations. Students will begin practicing the role of an APRN under preceptor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 788. Clinical Practicum II 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 787.
Description: The purpose of this course is to provide advanced clinical experience in comprehensive patient assessment, diagnosis and management of common and complex problems among select patient populations. Students will strengthen and enhance their advanced practice skills with preceptor supervision.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 789. Clinical Practicum III 3 Units
Grading Basis: Pass/Fail
Prerequisite(s): NURS 788.
Description: This clinical experience focuses on synthesis of theoretical, scientific, and clinical knowledge as well as practice-based skills in the diagnosis and management of existing and potential health problems based on appropriate standards of care. Emphasis will be placed on the collaborative and leadership roles of the advanced practice nurse in health care delivery.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 790. Special Topics: Research, Theory, Policy, Leadership or Educational Concepts for Doctoral Students 1-6 Units
Prerequisite(s): Admitted to the Doctoral Program; Completion of all coursework at the master's degree level.
Description: This course is an opportunity for Doctoral Students to focus study in an area of interest germane to their dissertation work.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

NURS 796. Independent Study for Doctoral Students 1-9 Units
Prerequisite(s): Admitted to the Doctoral Program; Completion of all coursework at the master’s degree level.
Description: Allows doctoral students to work with targeted faculty on a directed project with mutually identified objectives.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)