

School of Nursing

Nursing

The following list is of courses in the nursing major. For all courses with a clinical laboratory, the laboratory is designed to develop the clinical and critical thinking skills needed to use the nursing process with specific population groups.

NURS 500 School Nursing Practice: Addressing the Health Needs of Vulnerable Populations within the Context of Schools

Semester course; 3 lecture hours. 3 credits. Prerequisite: Permission of instructor. Focuses on school nursing services within the context of inclusive educational practices for students with low-incidence disabilities. Content emphasizes knowledge of the guiding principles of collaborative, comprehensive, coordinated, culturally competent, developmentally appropriate, family-centered and inclusive health and educational service provision. Also covers content on the IDEA and related legislation; health promotion, support and restoration needs of students with disabilities; working within the culture of schools; and the implications of working with culturally and linguistically diverse students and families. A web-based course available for advanced undergraduate and graduate students enrolled in the SNAPP program.

NURS 501 Advanced Professionalization I

Semester course; 1 lecture hour. 1 credit. Pre- or corequisites: Admission to the graduate program in nursing. Focuses on socialization to the roles and responsibilities related to advanced nursing preparation.

NURS 502 Advanced Nursing Practice: Pharmacotherapeutics

Semester course; 3 lecture hours. 3 credits. Prerequisite: graduate standing or permission of the instructor. Develops the requisite knowledge of pharmacotherapeutics necessary for the safe pharmacological management of common patient problems by the advanced practice nurse.

NURS 503 Advanced Nursing Practice: Psychosocial

Semester course; 3 lecture hours. 3 credits. Prerequisite: NURS 201 or R.N. license. Examines and analyzes selected psychosocial theories and research, relating them to advanced practice nursing. Derives nursing strategies for phenomena of concern associated with specialty areas.

NURS 504 Advanced Nursing Practice: The Biological Basis of Health and Illness Across the Lifespan

Semester course; 3 lecture hours. 3 credits. Focuses on the biological and pathophysiological foundations of health problems across the life span. Uses biologic changes underlying selected health risks and health problems as a framework for critically appraising health assessment data and for understanding advanced nursing therapeutic strategies.

NURS 505 Advanced Nursing Practice: Foundations in Health Care Finance

Semester course; 3 lecture hours. 3 credits. Prerequisite: admission to the graduate program in nursing or permission of instructor. Provides students with knowledge and skills necessary to develop and manage operating and capital budgets in a health care

environment. Introduces health care economics and accounting principles appropriate for health care financial management. Provides instruction for the development of financial spreadsheets and analyses using selected computer software programs.

NURS 508 Advanced Nursing Practice: Systems

3 lecture hours. 3 credits. Provides an understanding of the context in which health services are managed and delivered. Explores social, ethical, and political issues affecting current and future nursing care delivery systems. Examines cost effectiveness of nursing care in a variety of settings.

NURS 509 Health Program Planning

3 lecture hours. 3 credits. Provides a framework for planning to improve health outcomes among selected target groups. Examines basic principles, processes and methods of program planning from a population-health perspective. Emphasizes organized health promotion and prevention activities that are developed, implemented and evaluated by advanced practice nurses in a variety of settings.

NURS 510 Nursing Ethics

3 lecture hours. 3 credits. Identifies and examines moral dilemmas encountered in professional nursing practice. Examines personal value systems, applies ethical theory and principles to dilemmas in clinical nursing practice: patient's rights, informed consent, confidentiality, quality of life and death and dying. Examines relationships between professional nursing and resolution of moral dilemmas.

NURS 511 Health Assessment for Advanced Nursing Practice

1 lecture and 2 laboratory hours. 3 credits. Provides the framework for holistic, culturally relevant assessment of individuals. Focuses on advancing students' knowledge and assessment in health history, risk appraisal, health promotion, psychosocial, developmental and functional assessment and physical examination techniques. Emphasizes the application of diagnostic reasoning skills in assessing deviations from normal in selected content in specialty areas. Includes supervised experiences with advanced clinical assessment skills.

NURS 512 Advanced Nursing Science

3 lecture hours. 3 credits. Focuses on theory and research in advanced practice with aim of critique and utilization of current theories and findings/outcomes. Emphasizes analysis and synthesis of nursing science in the context of relevant programs, practice problems, issues, and concerns. Reviews major research design and analytic strategies.

NURS 514/INTL 514 International Perspectives on Community Health in Developing Countries

Semester course; 1 lecture and 2 laboratory hours. 3 credits. This course may be taken for a maximum of 6 credits in two different world areas. Open to undergraduate (junior or senior level) and graduate students. Explores the impact of national and international policy decisions on the health and well-being of individuals and communities (country varies semester to semester). Examines the relationship of cultural beliefs and values on health-seeking behaviors. Allows students to become immersed in a culture different than their own. Evaluates the impact

of international conflict and economic development on the health status of the community. See the Schedule of Classes for location.

NURS 540 Spirituality in Health Care

3 lecture hours. 3 credits. Explores the phenomenon of spirituality in health and illness across cultures and life spans from a framework of humility and respect for multiple world views. Integrates theory and research as well as individual and communal ways of knowing to provide spiritually sensitive care that nurtures wholeness and promotes healing.

NURS 591 Special Topics

Semester course; 1-3 credits. Explores specific topics in nursing theory and practice.

NURS 592 Directed Study in Nursing

1-3 credits. Prerequisite: Permission of instructor. Independent study in a specific area of nursing developed under the supervision of a member of the graduate faculty.

NURS 601 Advanced Professionalization II

1 lecture hour. 1 credit. Prerequisite: NURS 501. Taken in the last or next-to-last semester of the program, this course focuses on enactment of the advanced practice role through the application of a framework for practice. Emphasizes critical thinking, inter- and intradisciplinary collaboration and the delineation of solutions and strategies to solve practice-based situations.

NURS 602 Contexts and Curriculum of Nursing Education

Semester course; 3 lecture hours. 3 credits. Provides a background for the structure of nursing education in American colleges and universities. Explores macro-environment of accreditation as well as curriculum structures for the organization of nursing education programs. Emphasis includes analysis of philosophy and assumptions that underlie select curriculum models, influence of external and internal factors on selection of content and processes, and various structures for deriving and organizing content. Development of courses to achieve identified curricular outcomes is a major course focus. Graded A/B/C/D/F.

NURS 603 Nursing Education Classroom Practicum

Semester course; 2 lecture and 1 laboratory hours. 3 credits. Prerequisite: NURS 602. Addresses the theoretical and practical foundations for classroom teaching in a nursing curriculum. Reviews research in nursing education and other fields on effective teaching practices. Focuses on working with an experienced faculty member in teaching a nursing course with special emphasis on the development and evaluation of evidence-based teaching strategies in the classroom that foster critical-thinking outcomes.

NURS 604 Nursing Education Clinical Practicum

Semester course; 2 lecture and 2 laboratory hours. 4 credits. Prerequisite: NURS 602. Focuses on the application of nursing and educational theories in clinical teaching. Provides an opportunity to work with experienced faculty in teaching a clinical experience for either undergraduate or graduate students. Emphasis is placed on learning to use approaches that

enhance student clinical-reasoning/critical-thinking capabilities.

NURS 611 Advanced Practice Clinical Skills

Semester course; 1 laboratory hour. 1 credit. Provides the foundation for acquiring a beginning level of competency in a variety of common advanced clinical practice skills and procedures. Emphasizes correct technique and includes supervised experiences.

NURS 620 Theoretical Perspectives of Community Health Nursing

Semester course; 3 lecture hours. 3 credits. Reviews and critically analyzes theoretical underpinnings of community health nursing, public health practice, and behavior change. Describes the differences among community level interventions, family and group level interventions, and individual level interventions for behavior change. Explores various methods of community assessment, and describes community development, structure and organization. Relationships among community health needs, health services, resources, community health policy and community health indices are examined.

NURS 622 Advanced Practice Psychiatric Mental Health Nursing Practicum: Diagnosis and Treatment of Psychiatric Disorders

Semester course; 45-135 variable clinical hours. 1-3 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 502, 503, 504, 511. Co-requisite: NURS 656. Uses application of diagnostic algorithms for the most common psychiatric symptoms as a framework in the psychopathological assessment of common disorders seen in adolescents, adults and the elderly. Employs clinical assessment tools to assess the psychiatric and psychosocial needs of families and groups considering the biological, environmental, legal/ethical and sociocultural impact on the diagnosis of individuals with acute or chronic primary health care problems. Explores advanced nursing assessment, classifications and interventions from cultural perspectives in a variety of settings. Graded as Pass/Fail.

NURS 623 Advanced Practice Psychiatric Mental Health Nursing Practicum: Therapeutic Approaches

Semester course; 45-135 variable clinical hours. 1-3 credits (45 clinical hours per credit). May be repeated. Prerequisite: NURS 622. Corequisite: NURS 657. Integrates theoretical, clinical and research knowledge of advanced practice psychiatric nursing to plan therapeutic interventions for individuals, families and groups. Applies psychotherapies as well as complementary, alternative and somatic therapies. Uses practice guidelines to inform clinical management of individuals, groups and families in acute and primary mental health settings. Graded as Pass/Fail.

NURS 624 Advanced Practice Psychiatric Mental Health Nursing Practicum: Psychiatric Nurse Practitioner Synthesis Practicum

Semester course; 90-270 variable clinical hours. 2-6 credits (45 clinical hours per credit). May be repeated. Prerequisite: NURS 622. Focuses on the synthesis, application and evaluation of knowledge of the advanced practice psychiatric nurse practitioner role to provide primary mental health care to populations with acute and chronic conditions. Provides opportunities for the achievement of competencies specific to the

adult psychiatric nurse practitioner role through faculty-supervised clinical experiences with a preceptor. Employs approaches that address population-specific needs of communities with varied social and cultural contexts. Synthesizes current evidence with advanced practice and leadership principles to plan, deliver and evaluate population-specific interventions. Graded as Pass/Fail.

NURS 625 Clinical Nurse Specialist: Adult Acute Care Practicum

Semester course; 2-5 practicum hours. 2-5 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 501, 502, 511, 663. Pre- or corequisite: NURS 686. Focuses on the synthesis, application and evaluation of knowledge with a target population in acute care settings. Provides opportunities for achievement of competencies in the spheres of influence (patient, staff and organization) of the clinical nurse specialist (CNS) through faculty-supervised clinical experience with a preceptor. Allows for the practicum to be planned in relation to the student's area of clinical specialization. Focuses on the evaluation of specific competencies (outcomes) determined by the faculty and student. Provides an opportunity for practica to be repeated in order to evaluate knowledge in the specialty and meet the minimum clinical hours necessary for national certification and licensure. A total of 7 credit hours are required.

NURS 626 Clinical Nurse Specialist: Advanced Adult Acute Care Practicum

Semester course; 2-5 practicum hours. 2-5 credits (45 clinical hours per credit). May be repeated. Prerequisite: all required clinical hours in NURS 625 (7 credits). Co- or prerequisite: NURS 601. Focuses on advanced nursing practice with a specialty patient population in an acute care setting. Provides opportunities for achievement of advanced competencies within the spheres of influence of the clinical nurse specialist: patient, staff and organization. These opportunities are provided through faculty-supervised clinical experiences with a preceptor. Provides an opportunity for practica to be repeated in order to evaluate knowledge in the specialty and meet the minimum clinical hours necessary for national certification and licensure. A total of 5 credit hours are required. Upon completion of the required hours, performance at the advanced level is expected. Graded pass/fail.

NURS 627 Critical Care Nursing

Semester course; 2 lecture and 1 laboratory hours. 3 credits. Prerequisites: R.N. licensure, Advanced Cardiac Life Support Certification (ACLS, PALS or NALS), NURS 511 and NURS 504. Focuses on critical care technologies that are used in care of the critically ill. Course content will include the theoretical principles on which the selected technologies are based as well as discussions of the practical use and troubleshooting of the technologies presented. Provides experience in critically evaluating research and evidence-based guidelines related to commonly used critical care technologies.

NURS 628 Advanced Practice Psychiatric Mental Health Nursing: Psychiatric Clinical Nurse Specialist Practicum

Semester course; 90-270 variable clinical hours. 2-6 credits (45 clinical hours per credit). May be repeated. Prerequisite: NURS 632. Focuses on the synthesis,

application and evaluation of knowledge of the advanced practice psychiatric clinical nurse specialist role to provide mental health care to populations with acute and chronic conditions. Provides opportunities for achievement of competencies in the spheres of influence (patient, staff and organization) of the adult psychiatric clinical nurse specialist through faculty-supervised clinical experiences with a preceptor. Employs approaches that address population-specific needs of communities with varied social and cultural contexts. Synthesizes current evidence using advanced practice and leadership principles to plan, deliver and evaluate population-specific interventions. Graded as Pass/Fail.

NURS 632 Health Promotion in Women

3 lecture hours. 3 credits. Focuses on the health needs of women across the lifespan. Examines historical, political, cultural, developmental, psychological and sociological issues that impact women's health from within a wellness-oriented, women-centered framework. Emphasizes the advanced practice role in the application of evidence-based findings related to health promotion, disease prevention and early detection as a basis for clinical decision-making in collaboration with female patients.

NURS 633 Common Health Problems of Women

Semester course; 1-3 lecture hours. 1-3 credits. Prerequisites: NURS 504 and NURS 511. Provides content on common physical and psychosocial health and illness changes of women. Emphasizes health promotion and maintenance, as well as illness prevention, detection and management approaches. Includes current nursing, medical, and pharmacological diagnostic and management modalities. Reinforces essential content and clinical judgment application for advanced nursing practice through case study discussions.

NURS 634 Advanced Practice: The Childbearing Woman

Semester course; 2 lecture hours for Family Health students and 3 lecture hours for Women's Health students. 2-3 credits. Prerequisite or corequisite: NURS 501, 502, 504 and 511. Note: the last third of the course, which focuses on high risk perinatal conditions, would be elective for the Family Health students but required for the Women's Health students. Focuses on management of potential and actual health problems of women as members of families and their newborns during the perinatal period, pregnancy, labor, delivery, the postpartum and neonatal periods. Nursing assessment, diagnosis and intervention related to health promotion, treatment and prevention of perinatal problems are addressed. Emphasizes the integration of theories and research in perinatal health care and the role of the advanced practice nurse in caring for these clients.

NURS 640 Introduction to the Clinical Nurse Leader Role

2 seminar hours and 1 clinical hour (45 hours per credit). 2 credits. Prerequisites: admission to CNL track; NURS 501, 504 and 512. Pre- or corequisite: NURS 508. Introduces the interdisciplinary role of the clinical nurse leader with a target population in a selected health care setting. Reviews theories, concepts and research findings related to the three curriculum elements of the CNL role -- nursing leadership, clinical outcomes management and care environment

management -- as a basis for clinical decision-making with staff, patients and families within a variety of settings. Graded as P/F.

NURS 641 Clinical Nurse Leader: Practicum I

45 clinical hours per credit. 2 credits. Pre- or corequisites: NURS 511 and 640. Focuses on the interdisciplinary role of the clinical nurse leader with a target population in a selected health care setting. Provides opportunities for beginning development of competencies in the three curriculum elements of the CNL role -- nursing leadership, care environment management and clinical outcomes management -- through faculty-supervised clinical experiences with a preceptor. Allows for the practicum to be in the student's area of clinical specialization focusing on the development of CNL-specific competencies. Graded as P/F.

NURS 642 Clinical Nurse Leader: Practicum II

45 clinical hours per credit. 7 credits. Prerequisite: NURS 641. Pre- or corequisite: NURS 502. Focuses on the synthesis, application and evaluation of the interdisciplinary role of the clinical nurse leader with a target population in a selected health care setting. Students in this immersion experience assume a CNL role and design and implement processes for the effective management and evaluation of client/patient outcomes across the continuum of care. Provides opportunities for achievement of all CNL competencies related to the three curriculum elements of the CNL role -- nursing leadership, care environment management and clinical outcomes management -- through faculty-supervised clinical specialization. The student will integrate best practices, principles of effective leadership and negotiation skills, utilization of information systems to evaluate client/patient outcomes, and theories of organizational behavior in the implementation of a health care initiative project. Graded as P/F.

NURS 647 Health Promotion and Disease Prevention in Children

Semester course; 3 lecture hours. 3 credits. Pre- or corequisites: NURS 501 and NURS 511. Focuses on health needs of well children from infancy through adolescence, and their families. Emphasizes health promotion and disease prevention, and early identification of illness or disease risk. Integrates concepts of development, family systems, and individual and family adaptation. Develops a student's skills in pediatric screening and developmental and behavioral assessment. Stresses collaborative decision making with children and families.

NURS 648 Management of Acute Problems of Children and Adolescents

1-3 lecture hours. 1-3 credits. Prerequisites: NURS 504 and NURS 511. Focuses on management of advanced nursing practice related to the management of common developmental, health and illness changes of children and adolescents. Includes pathophysiological, pharmacological, and nutritional management implications. Emphasizes the development of diagnostic reasoning and critical thinking skills in the management of common health problems, using selected organizing frameworks.

NURS 649 Children with Special Health Care Needs

3 lecture hours. 3 credits. Prerequisites: NURS 501, NURS 503, NURS 504, NURS 511, NURS 512, NURS 647, NURS 648, NURS 672 and NURS 673. Corequisite: NURS 674 or permission of instructor. Prepares the student to manage children and adolescents with chronic illness, disability or complex health conditions across health care settings. Integrates well child care with the management of chronic or complex conditions.

NURS 650 Child Behavior and Mental Health

Semester course; 2 lecture hours. 2 credits. Prerequisites: NURS 501, 502, 511, 647 or with permission of instructor. Focuses on increasing knowledge and skills in assessing and distinguishing normal and abnormal behavioral and mental health symptoms in children and adolescents. Further development of management skills for common behavioral and mental health problems are refined. Case management skills to utilize community and school-based resources for more complex disorders are examined. Techniques for therapeutic communication with parent throughout the care continuum are highlighted.

NURS 654 Integrative Healing Paradigms for Advanced Practice Nursing

Continuing course; 6 seminar hours. 3 credits. Prerequisite: admission to graduate program or permission of instructor. Focuses on understanding and application of principles and theories derived from the art and science of integrative healing to self-care and care of others as critical to the role of the advanced practice nurse in mental health and holistic nursing. Provides opportunities for self-exploration and awareness, modeling a wellness lifestyle, and applying practices that support the well-being of others. Uses seminar dialogues, participatory learning strategies and demonstrations as primary modalities of learning. Designed for continuing enrollment for two academic semesters; graded CO in the fall and a letter grade in the spring.

NURS 655 Nurse as Leader

Semester course; 4 seminar hours. 2 credits. Prerequisite: Admission to graduate program or permission of instructor. Explores central theories and practice of leadership with emphasis on implications for the advanced practice nurse. Explores student's capacity for leadership, including contemporary contexts and personal propensities, strengths and deterrents to effective leadership practice. Includes learning experiences designed to enhance student's self-understanding as leader and provide culturally diverse urban arena for practicing emerging competencies. Requires an action plan designed, in consultation with faculty mentor, to systematically improve leadership skills.

NURS 656 Integrative Mental Health Nursing: Management and Treatment of Psychopathology for Advanced Practice Nurses

Semester course; 3 lecture hours. 3 credits. Prerequisite: NURS 502, NURS 504, 511 or permission of instructor. Concurrent clinical practicum course: NURS 622. Synthesizes advanced practice knowledge relevant to the primary mental health care of individuals with psychiatric disorders from a neurobiological and psychopharmacologic perspective.

Integrates diagnostic algorithms with biological and psychological theories and research findings pertinent to care of individuals. Addresses knowledge needed for the holistic assessment, diagnosis and management of culturally diverse clients with psychiatric disorders in primary care settings. Examines neurobiology in the context of experience.

NURS 657 Integrative Mental Health Nursing: Contemporary Practice

Semester course; 3 lecture hours. 3 credits. Prerequisites: NURS 503 and NURS 656. Pre- or corequisite: NURS 654. Concurrent clinical practicum course: NURS 623. Focuses on advanced psychiatric mental health nursing practice by integrating theoretical, clinical and research knowledge for primary mental health care and therapeutic management of acute and chronic mental health conditions. Examines knowledge of theories and therapeutic techniques for individuals, families and groups from urban, culturally diverse and underserved populations within an integrative context for advanced nursing practice and interdisciplinary leadership.

NURS 658 Complementary Healing Modalities

Semester course; 3 lecture hours. 3 credits. Prerequisite: Admission to the graduate program or permission of the instructor. Critically examines complementary health strategies from a variety of perspectives including social, historical, cultural, political and economic contexts. Analyzes philosophical, theoretical and research literature associated with the use of complementary healing modalities. Explores frameworks for advanced nursing practice that incorporate tenets of healing modalities. Students will have the opportunity to select and examine a complementary health strategy for in-depth study and potential application.

NURS 659 Integrative Mental Health Nursing: Synthesis

Semester course; 3 lecture hours. 3 credits. Prerequisites: NURS 503, 508, 509, 654, 655, 656, or permission of instructor. Concurrent clinical practicum course: NURS 624. Focuses on theory and practice of integrative mental health nursing and addresses acute and chronic conditions from a population-specific perspective. Integrates and synthesizes psychosocial and holistic theories, research and knowledge for advanced primary mental health practice with an urban and underserved community focus. Uses principles of leadership to guide mental health promotion, illness prevention and primary mental health care activities.

NURS 660 Health Promotion and Disease Prevention in Adults

3 lecture hours. 3 credits. Pre- or corequisites: NURS 501, 504 and 511. Focuses on advanced nursing assessment and therapeutics across the life span from adolescence to old age. Applies theories, concepts and research findings related to health promotion, health protection and disease prevention as a basis for clinical decision making with adolescent and adult patients and their families within a variety of care settings.

NURS 661 Common Problems in Adult Primary Care

1-4 lecture hours. 1-4 credits. Prerequisites: NURS 511, NURS 501 and NURS 504. Provides content on selected common health and illness changes encountered in primary/ambulatory care settings using clinical simulations. Focuses on increasing students'

knowledge and clinical decision-making skills in order to promote health, accurately diagnose, prevent and manage these common problems.

NURS 663 Common Problems in Adult Acute Care

1-3 lecture hours. 1-3 credits. Prerequisites: NURS 511, NURS 501 and NURS 504. Provides content on selected common health and illness changes encountered in acute care settings using clinical simulations. The focus of this course is on increasing students' knowledge and decision-making skills in order to accurately diagnose, prevent, and manage these common acute and chronic problems.

NURS 664 Management of Patient Problems in the Tertiary Care Setting

3 lecture hours. 3 credits. Focuses on increasing students' knowledge of the medical and nursing problems of a specialty population of patients in tertiary care. Provides an opportunity to acquire in-depth knowledge of diseases and their management within the specialty. Students will demonstrate the synthesis of knowledge gained from previous courses and practical experiences.

NURS 668 Advanced Nursing Therapeutics for Altered Immunocompetence

3 lecture hours. 3 credits. Prerequisite: NURS 504 or permission of instructor. Analyzes concepts and factors related to the phenomenon of immunocompetence. Examines the contribution of advanced nursing practice to patient outcomes in selected clinical problems such as infection, malignancy, hypersensitivity, autoimmunity, transplantation and HIV infection. Evaluates clinical problems from both a theoretical and clinical perspective, incorporating biological, psychosocial, ethical, cultural and health systems aspects.

NURS 670 Primary Care of Families

1-3 lecture hours. 1-3 credits. Prerequisites: NURS 501, NURS 503, NURS 504, NURS 511, NURS 512, NURS 647, NURS 648 and NURS 633. Addresses the synthesis of theoretical and research bases for advanced nursing practice with families. Focuses on the care of the individual and their family throughout the life span and across the health continuum, with special emphasis on the advanced evaluation of families and their health needs.

NURS 671 Practicum in Pediatric Behavioral and Mental Health

Semester course; 1 lecture hour. 1 credit. Prerequisites: NURS 650 and 672. Focuses on the application of evidence-based knowledge related to the care of children with behavioral, developmental and mental health concerns. Emphasis on refining skills in assessment and management of children with behavioral, developmental and mental health concerns who are seen in primary care and community settings using standards of care. Graded as P/F.

NURS 672 Child Practicum I

1-3 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 501, NURS 503, NURS 504 and NURS 511. Pre- or corequisites: NURS 502, NURS 647 and NURS 648. Focuses on the synthesis of theory and application and evaluation of knowledge related to the primary care of children. Emphasis on beginning skill in assessment and management of well children and common acute problems of children and

adolescents. Major focus on assessment. Student expected to be able to deliver well child care in most situations using standards of care and close preceptor involvement. Expected to develop skill in pediatric history taking, developmental assessment and physical assessment and beginning skill in management of selected conditions. Develops beginning skill in management of common well child and behavioral issues. Clinical placements with preceptor(s) made by faculty based on area of role preparation declared by student.

NURS 673 Child Practicum II

1-3 clinical hours. 1-3 credits (45 clinical hours per credit). Prerequisites: NURS 501, NURS 503, NURS 504, NURS 511, NURS 647, NURS 648 and NURS 672. Pre- or corequisite: NURS 502. Focuses on the synthesis of theory and application and evaluation of knowledge related to the primary care of children; builds on previously developed assessment skills. Adds assessment of adolescent gynecology and sexuality. Student increases ability to manage more complex behavioral and well child issues. Student is expected to manage a wide variety of acute pediatric conditions with moderate preceptor input. Clinical placements with preceptor(s) made by faculty based on area of role and preparation declared by student.

NURS 674 Child Practicum III

1-4 clinical hours. 1-4 credits (45 clinical hours per credit). Prerequisites: NURS 501, NURS 502, NURS 503, NURS 504, NURS 511, NURS 647, NURS 648, NURS 672 and NURS 673. Pre- or corequisites: NURS 508, NURS 512, NURS 601 and NURS 649. Focuses on advanced clinical management of children in a variety of care settings. Student refines both assessment and management skills, requiring minimal preceptor input by the end of the semester. Extends skills to the management of children and their families dealing with chronic illness. Manages a wide range of complex well child and behavioral issues as well as children with a wide variety of acute illnesses. Clinical placements with preceptor(s) made by faculty based on area of role preparation declared by student.

NURS 675 Adult Immunocompetence Practicum I

1-3 clinical hours. 1-3 credits. May be repeated. Pre- or corequisites: NURS 661, NURS 511, or with permission of instructor. Focuses on the synthesis, application, and evaluation of knowledge for providing primary and/or acute health care to a target population of adults with actual or potential problems associated with alternations in immunocompetence. Emphasis is on the development of research and theory based advanced nursing practice. Provides opportunities for achievement of competencies in advanced nursing practice through faculty supervised clinical experiences with a preceptor. Practicum is planned in relationship to the student's area of interest and role preparation. Practicum is repeated in order to address the achievement of competencies with a designated adult population and at a more advanced level.

NURS 676 Adult Primary Practicum

Semester course; 2-6 practicum hours. 2-6 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 502 and 511. Corequisite: NURS 661. Focuses on the synthesis of theory, its application to and evaluation of a target population in a variety of primary care settings. Provides opportunities for the achievement of competencies specific to the nurse

practitioner role through faculty-supervised clinical experiences with a preceptor. Allows for the practicum to be planned in relation to the student's area of interest in conjunction with nurse practitioner role preparation. Focuses on the evaluation of specific competencies (outcomes) integral to the role of nurse practitioner. Provides an opportunity for practica to be repeated in order to enable students to synthesize theory and apply and evaluate knowledge within the framework of different practice models and differing populations. Also provides an opportunity for practica to be repeated in order to meet the minimum field study hours necessary for national nurse practitioner certification and nurse practitioner licensure.

NURS 677 Advanced Adult Primary Practicum

2-5 practicum hours. 2-5 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 676 and 678. Focuses on advanced clinical management of a patient population in a variety of primary care settings. Focuses on the evaluation of specific competencies (outcomes) integral to the nurse practitioner role. Provides opportunities for achievement of final clinical competencies specific to the nurse practitioner role in order to prepare the student to practice safely as a novice nurse practitioner. These opportunities for achievement are obtained through faculty-supervised clinical experiences with a preceptor. Because this is the final practica course, performance at the advanced level is expected. Graded as pass/fail.

NURS 678 Adult Acute Practicum

Semester course; 2-6 practicum hours. 2-6 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 502 and 511. Corequisite: NURS 663. Focuses on the synthesis of theory, its application to and evaluation of a target population in a variety of acute care settings. Provides opportunities for the achievement of competencies specific to the nurse practitioner role through faculty-supervised clinical experiences with a preceptor. Allows for the practicum to be planned in relation to the student's area of interest in conjunction with nurse practitioner role preparation. Focuses on the evaluation of specific competencies (outcomes) integral to the role of nurse practitioner. Provides an opportunity for practica to be repeated in order to enable students to synthesize theory and apply and evaluate knowledge within the framework of different practice models and differing populations. Also provides an opportunity for practica to be repeated in order to meet the minimum field study hours necessary for national nurse practitioner certification and nurse practitioner licensure.

NURS 679 Advanced Adult Acute Practicum

2-5 practicum hours. 2-5 credits (45 clinical hours per credit). May be repeated. Prerequisites: NURS 676 and 678, and advanced cardiac life support certification. Focuses on advanced clinical management of a patient population in a variety of acute care settings. Focuses on the evaluation of specific competencies (outcomes) integral to the role of the nurse practitioner. Provides opportunities for achievement of final clinical competencies specific to the nurse practitioner role in order to prepare the student to practice safely as a novice nurse practitioner. These opportunities are provided through faculty-supervised clinical experiences with a preceptor. Because this is the final practica course, performance at the advanced level is expected. Graded as pass/fail.

NURS 680 Leading People

Semester course; 3 lecture hours. 3 credits.

Prerequisite: NURS 655 or permission of instructor.

Examines the effective leadership and application of management theory and skills in the development of a high performing group of both professional and support staff within health care. Examines issues related to cultural diversity and empowerment for optimal performance within the complex urban health care setting.

NURS 681 Nurses as Organizational Leaders

Semester course; 3 lecture hours. 3 credits.

Prerequisite: Admission to the graduate program or permission of instructor. Explores organizational and individual factors that influence nursing leadership and administrative roles. Analyzes the relationships among major organizational variables and stakeholders and their impact on the design and management of a nursing department.

NURS 682 Women's Practicum I

Semester course; variable hours. 1-4 credits (45 clinical hours per credit). May be repeated.

Prerequisite: NURS 511. Pre- or corequisites: NURS 502 and 633. Focuses on the beginning synthesis of theory and application of advanced nursing practice and evaluation of knowledge in the care of women clients, including well-women gynecologic and health promotion care, management of uncomplicated acute gynecologic needs/problems of women, and diagnosis and management of uncomplicated prenatal and postnatal care. Care of commonly encountered needs/problems of women is based on standards of AWHONN and ACOG. Provides opportunities for achievement of beginning competencies in advanced nursing practice with women through supervised clinical experiences with a qualified women's health care preceptor. Allows for the practicum to be planned in relation to the student's area of interest in women's health and role preparation (nurse practitioner or clinical nurse specialists). Graded as P/F.

Prerequisite: NURS 511. Pre- or corequisites: NURS 502 and 633. Focuses on the beginning synthesis of theory and application of advanced nursing practice and evaluation of knowledge in the care of women clients, including well-women gynecologic and health promotion care, management of uncomplicated acute gynecologic needs/problems of women, and diagnosis and management of uncomplicated prenatal and postnatal care. Care of commonly encountered needs/problems of women is based on standards of AWHONN and ACOG. Provides opportunities for achievement of beginning competencies in advanced nursing practice with women through supervised clinical experiences with a qualified women's health care preceptor. Allows for the practicum to be planned in relation to the student's area of interest in women's health and role preparation (nurse practitioner or clinical nurse specialists). Graded as P/F.

NURS 683 Women's Practicum II

Semester course; variable hours. 1-4 credits (45 clinical hours per credit). Prerequisites: NURS 632, 633 and 682. Pre- or corequisite: NURS 634. Focuses on the intermediate and advanced synthesis of theory and application of advanced nursing practice and evaluation of knowledge in the care of women with more complex reproductive and gynecologic and more general nonreproductive needs/problems. Care for commonly encountered conditions of women is based on standards of AWHONN and ACOG. Provides opportunities for achievement of intermediate and advanced competencies in advanced nursing practice with women through supervised clinical experiences with a qualified women's health care preceptor. Allows for the practicum to be planned in relation to the student's area of interest in women's health and role preparation (nurse practitioner or clinical nurse specialist). Selected experiences will be explored focusing on teaching, case management and leadership. Graded as P/F.

NURS 684 Family Practicum

1-4 clinical hours. 1-4 credits (45 clinical hours per credit). Prerequisites: NURS 647, NURS 648, NURS 633, NURS 661, NURS 502, NURS 672, NURS 676, NURS 682 and NURS 670. Pre- or corequisite: 2 credits of this practicum can be taken in the summer immediately preceding NURS 670 with the consent of

the student's adviser. The remaining 2 credits must be taken concurrent with 670 in the following fall semester. Focuses on the achievement of final clinical objectives for the concentration. Provides opportunities for achievement of these competencies as an advanced nursing practice in the family concentration through faculty supervised clinical experiences with a preceptor.

NURS 685 Women's Practicum III

Semester course; 45 clinical hours per credit. 1-5 credits. May be repeated. Prerequisite: NURS 683. Prepares student for the transition to advanced practice by applying knowledge in the care of women. Care of conditions in women is based on standards of AWHONN and ACOG. Provides opportunities for achievement of advanced competencies in advanced nursing practice with women through supervised clinical experiences with a qualified women's health care preceptor. Allows for practicum to be planned in relation to the student's area of interest and role preparation (nurse practitioner or clinical nurse specialist). Selected experiences will be explored focusing on teaching, case management and leadership. Graded as pass/fail.

NURS 686 Emerging Clinical Issues in Patient Management

Semester course; 3 lecture hours. 3 credits. Prerequisite: Admitted to the Adult Health Acute Care CNS concentration or permission of the instructor; NURS 501, NURS 508 and NURS 512. Examines the role and functions of the clinical nurse specialist in identifying and responding to emerging issues in the delivery of care to patients in the student's area of specialization.

NURS 687 Management Systems and Health Care Outcomes

Semester course; 4 lecture hours. 4 credits. Prerequisites: NURS 508 or permission of instructor. Focuses on the effective management of human, material and fiscal resources in a competitive institutional environment. Evaluates selected approaches to assessing the quality of patient outcomes using information technology. Examines issues related to obtaining and organizing clinical and administrative data to support decision making. Takes a comprehensive approach to program and business planning.

NURS 688 Perinatal Practicum

1-3 clinical hours. 1-3 credits (45 clinical hours per credit). Focuses on the application of theory and the clinical management of high risk perinatal families. Addresses the application of nursing process by the advanced practice nurse to individuals and families experiencing complex problems during the perinatal period. Provides the opportunity to augment prior clinical skills and experiences related to management of perinatal clients.

NURS 689 Integrative Systems Community Practicum

3-6 clinical laboratory hours. 3-6 credits (45 clinical hours per credit). May be repeated. Pre- or corequisite: Permission of instructor. Focuses on the application of nursing knowledge within the integrative systems specialties with a targeted population in a variety of settings. These settings may include health care and community organizations. Provides opportunities for achievement of competencies in advanced nursing

practice through faculty-supervised clinical experiences with a preceptor. Allows for the practicum to be planned in relation to the student's area of interest and role preparation. Focuses on the evaluation of specific outcomes determined by the faculty and student. Provides an opportunity for practica to be repeated with either an additional population or at a more advanced level. Graded as P/F.

NURS 690 Application of Financial Concepts

Semester course; 4 lecture hours. 4 credits. Prerequisite: NURS 508 or permission of instructor. Provides an understanding of financial concepts for nurse leaders and includes the application of financial principles to health care organizations and the impact of these applications on patient outcomes.

NURS 691 Nursing Research Practicum

3 laboratory hours. 3 credits. Prerequisite: NURS 512. Permission of instructor required. Participates in ongoing research. Implements research with faculty direction and supervision.

NURS 692 Integrative Administrative Systems Practicum I

Semester course; 45 clinical hours per credit. 2 credits. Prerequisite: Permission of instructor. Focuses on the application of nursing knowledge in a variety of settings within the integrative systems specialty of nursing administration and leadership. Practicum focuses on the negotiation of learning objectives and the definition of a project for an organizational change to be implemented in the subsequent semesters of practica under the supervision of faculty and the preceptor. The student is required to complete an organizational assessment including plans for further data collection and analysis and delineation of personal leadership roles that the student assumes in implementing the change. Provides opportunities for achievement of competencies in advanced nursing practice through faculty-supervised administration and leadership experiences with a preceptor. Allows for the practicum to be planned in relation to the student's area of interest and role preparation. Focuses on the evaluation of specific outcomes determined by the faculty and student.

NURS 693 Integrative Administrative Systems Practicum II

Semester course; 45 clinical hours per credit. 2 credits. Prerequisite: NURS 692. Focuses on the application of nursing knowledge in a variety of settings within the integrative systems specialty of nursing administration and leadership. Practicum focuses on the analysis of primary and secondary data related to the project negotiated in Practicum I and the development of a plan to implement the selected organizational project. The student will identify the necessary skills and competencies appropriate to implementing the plan. Provides opportunities for achievement of competencies in advanced nursing practice through faculty-supervised administration and leadership experiences with a preceptor. Allows for the practicum to be planned in relation to the student's area of interest and role preparation. Focuses on the evaluation of specific outcomes determined by the faculty and student.

NURS 694 Integrative Administrative Systems Practicum III

Semester course; 45 clinical hours per credit. 2 credits. Prerequisite: NURS 693. Focuses on the application of

nursing knowledge in a variety of settings within the integrative systems specialty of nursing administration and leadership. Practicum focuses on the execution of the plan for the organizational project using established evaluation measures. Provides opportunities for achievement of competencies in advanced nursing practice through faculty-supervised administration and leadership experiences with a preceptor. Student will demonstrate the synthesis of knowledge gained from previous courses and practica experiences.

NURS 696 Nurse Practitioner Residency I

3 lecture and 3 laboratory hours. 6 credits. Focuses on the application of advanced practice knowledge in a variety of settings within the VCUMC. The first course in the residency focuses on the development of the beginning nurse practitioner, or experienced nurse practitioner beginning a new setting, to the phase of assuming a productive role on a patient care team. Provides opportunities for achievement of competencies in advanced nursing practice through supervised experience with nurse practitioner and physician faculty. Also provides supervision to develop increased cultural competence in dealing with patients of an ethnic background that differs from that of the student. Students will demonstrate the synthesis of knowledge gained from previous courses and practical experiences.

NURS 697 Nurse Practitioner Residency II

6 laboratory hours. 6 credits. Focuses on the application of advanced practice knowledge in a variety of setting within the VCUMC. This second course in the residency focuses on the development of the new nurse practitioner, or experienced nurse practitioner beginning a new setting, from the phase of assuming a productive role on a patient care team to producing patient care and system outcomes in relation to a larger number of patients. Provides opportunities for evidencing competencies in advanced nursing practice through supervised experience with nurse practitioner and physician faculty. Students will demonstrate the synthesis of knowledge gained from previous courses, practical experiences and Nurse Practitioner Residency I. By the completion of the course, the student will have established a valued place on the health care team.

NURS 698 Nurse Practitioner Residency III

6 laboratory hours. 6 credits. Focuses on the application of advanced practice knowledge in a variety of setting within the VCUMC. This third course in the residency focuses on the consolidation of the competencies of the nurse practitioner, or experienced nurse practitioner beginning a new setting, from the phase of producing patient care and system outcomes in relation to a larger number of patients to teaching others and providing for continuity of care and systems through changes in personnel on patient care teams. Provides opportunities for sharing competencies in advanced nursing practice through supervised experience with nurse practitioner and physician faculty. Students will demonstrate the synthesis of knowledge gained from previous courses, practical experiences and Nurse Practitioner Residency I. By the completion of the course, the student will assist others to obtain a productive place on the health care team.

NURS 703 Philosophy of Human Sciences

3 lecture hours. 3 credits. Prerequisite: Admission to the doctoral program. Critically analyzes philosophic perspectives and their relationship to human sciences; emphasizes analysis of the underlying epistemology and ontological assumptions of various philosophies. Explores philosophies of science and their influence on the emergence of knowledge in the human sciences, using nursing science as an example.

NURS 704 Analysis and Construction of Nursing Models and Theories

3 lecture hours. 3 credits. Pre- or corequisite: NURS 703. Analyzes the structure of nursing knowledge through the study and critique of concepts, theories and conceptual models as derived from a variety of philosophical perspectives. Explores the function of theory and theory development in development of nursing knowledge. Evaluates the relationships among theories and forms of knowledge and evidence and explanation.

NURS 720 Foundations of Biobehavioral Clinical Research

Semester course; 3 lecture hours. 3 credits. Prerequisite: Admission to the doctoral program or permission of instructor. Focuses on the interaction of biology and behavior. Examines conceptual models and assumptions guiding bench, exploratory and experimental approaches designed to enhance function and development, and to prevent complications. Explores biobehavioral clinical research as translational nursing research to improve nursing practice and clinical outcomes. Introduces considerations related to methodology and measurement in biobehavioral clinical research.

NURS 721 Biobehavioral Measures in Clinical Research

Semester course; 3 lecture hours. 3 credits. Focuses on the application of biobehavioral measures in clinical research. Includes understanding theoretical foundations of measures as well as assessment of accuracy and precision of measures. Particular emphasis placed on measures of function, development and outcomes. Examples include clinical, observational and biological measures.

NURS 730 Systems Science in Health Care

3 lecture hours. 3 credits. Focuses on the interrelationships among groups, organizations and communities within the larger societal context. Examines philosophies, theories, methodologies and applications as they apply to understanding systems. Provides the foundation for conceptual model building and application of systems principles to specific health care problems, situations and organizations.

NURS 740 Theoretical Perspectives in Healing

3 lecture hours. 3 credits. Critically analyzes paradigmatic and theoretical perspectives related to healing processes. Using collaborative inquiry, explores models of healing. Describes the centrality of healing in relation to individuals, communities, cultures and organizations. Offers frame of reference for students to pursue a program of inquiry within the domain of healing.

NURS 742 Unitary-transformative Dimensions of Healing

3 lecture hours. 3 credits. Presents an overview of the critical elements and assumptions of a unitary-

transformative perspective and its relevance for a science and art of healing. Describes the development and evolution of the unitary-transformative paradigm through nursing theories as examples. Employs unitary science to contextualize evolving healing theory and practice. Engages students in developing conceptual and theoretical thinking to inform programs of healing inquiry.

NURS 750 Risk and Resilience Across the Life Span

3 lecture hours. 3 credits. This course explores risk and resilience from a theoretical perspective across the life span drawing on nursing and related disciplines. The emphasis is on theoretical perspectives, critical analyses of measurement strategies, and applications to research and practice.

NURS 760 Foundations of Immunocompetence

3 lecture hours. 3 credits. Provides in-depth study of immunocompetence as a phenomenon critical to the development of nursing science. Focuses on the biological and developmental basis for immunocompetence, multidimensional relationships among the immune and other physiological and psychosocial systems, and consequences of alterations in immunocompetence. Examines the theoretical basis for interventions designed to influence alterations in immunocompetence. Analyzes methodology and research design issues related to the study of immunocompetence.

NURS 761 Research and Practice in Psychoneuroimmunology

3 lecture hours. 3 credits. Prerequisites: graduate standing with at least one major course in immunocompetence, neuroscience, immunology and foundations of psychoneuroimmunology. Ph.D. in Nursing students must have completed NURS 760. This course is designed to explore psychoneuroimmunology (PNI) as a field of study and as a potential paradigm for both basic research and health-related research and practice. Emphases will include the psychophysiological processes underlying PNI, methodological issues and approaches for PNI-based research, and applications of the PNI framework within the health-related disciplines.

NURS 770 Quantitative Research Design

3 lecture hours. 3 credits. Prerequisite: NURS 773, BIOS 543 and BIOS 544. Provides advanced knowledge and skills for critical decision making in the design and implementation of quantitative health care research. Analyzes various quantitative research designs regarding ability to address phenomena of concern to nursing or health care. Presents a range of strategies and substantive knowledge for scientists to launch programs of quantitative inquiry.

NURS 771 Instrument Development

2 lecture and 1 laboratory hours. 3 credits. Prerequisites: SOCY/STAT 508 or SOCY/STAT 608 (or equivalent). This course is open to non-nursing students with permission of the instructor. Focuses on theoretical foundations underlying development and psychometric evaluation of instruments measuring psychosocial phenomena. Provides simulated experiences scale construction as well as hands-on statistical evaluation of relevant measurement properties.

NURS 772 Qualitative Research Design

3 lecture hours. 3 credits. Prerequisite: NURS 773 or permission of the instructor. Provides advanced knowledge and skills for critical decision making in the design and implementation of qualitative health care research. Provides a context for the study of phenomena of concern to the individual and discipline through scholarly debate, dialogue and reflection. Presents range of strategies and substantive knowledge for scientists to launch programs of qualitative inquiry.

NURS 773 Perspectives on Research Design

3 lecture hours. 3 credits. Pre- or corequisites: NURS 703, NURS 704, or permission of instructor. Analyzes philosophical foundations of a variety of research designs. Explores assumptions underlying the selection and evaluation of quantitative and qualitative designs. Focuses on the epistemological, ontological and methodological foundations of research design and implications for knowledge development.

NURS 774 Qualitative Data Analysis

3 lecture hours. 3 credits. Pre- or corequisites: NURS 773 and 772. Provides advanced knowledge and skills for qualitative data analysis. Approaches qualitative analytical processes from a variety of theoretical and methodological perspectives. Provides opportunity in analyzing qualitative data.

NURS 775 The Ethnographic Approach to Knowledge Generation in Nursing

3 lecture hours. 3 credits. Pre- or corequisites: NURS 772 and 774. A critical exploration of ethnography as a qualitative approach for studying nursing phenomena and generating nursing knowledge from a cultural perspective. Includes the critique of the epistemological, philosophical and ontological understandings of ethnography and an in-depth description of the traditional method. Evolving approaches for conducting ethnographic research will be discussed.

NURS 776 Research Program Development Seminar I

Seminar course; 2 seminar hours. 1 credit. Explores the multiple roles in establishing a program of research and the various career-development stages of a scholar. Defines an area of inquiry for knowledge development within a focus area.

NURS 777 Research Program Development Seminar II

Seminar course; 2 seminar and 1 lecture hours. 2 credits. Prerequisite: NURS 776. Explores knowledge development in a selected area of inquiry and the resources and strategies useful in establishing a program of research.

NURS 778 Research Program Development Seminar III

Seminar course; 2 seminar hours. 1 credit. Prerequisite: NURS 777. Focuses on collaboration within the research team and in the larger research community, leadership in the research team, the peer review process and knowledge dissemination.

NURS 780 Patient Care Systems and Patient Outcomes

3 lecture hours. 3 credits. Prerequisite: NURS 508 or equivalent, or permission of instructor. Examines administration concepts relevant to systems of patient care. Focuses on the approaches, including program

evaluation, for measuring patients outcomes affected by nursing and multidisciplinary collaboration.

NURS 781 Organizational Analysis in Nursing

3 lecture hours. 3 credits. Prerequisite: NURS 508, 681 or equivalent (i.e., graduate course in organizational theory); or permission of instructor. Analyzes current paradigms guiding nursing systems research. Evaluates concepts and theoretical models that attempt to explain organizational functioning and that are of particular usefulness in developing a substantive body of knowledge.

NURS 782 Analysis of Health Care Policy as a Factor in Nursing Practice

3 lecture hours. 3 credits. Analyzes global and national issues in health care policy. Applies traditional and emerging models to policy issues. Examines policies having implications for nursing practice research and administration. Focuses on the environment of health care policy development, the agencies and leadership of policy development and implementation, and nursing's role in policy development, implementation, and evaluation.

NURS 791 Special Topics

3-6 credits. May be repeated. Prerequisite: Admission to doctoral program and permission of instructor. Explores specific topics in nursing.

NURS 792 Directed Study in Nursing

Variable hours. 1-6 credits. Course may be repeated. A minimum of 3 credits is required as a substitute for a required focus of inquiry course. A maximum of 6 credits is allowed. Prerequisites: Admission to doctoral program and permission of instructor. Independent study in specific area of nursing developed under the supervision of a member of the graduate faculty. Graded as pass/fail.

NURS 796 Directed Research

Variable clinical hours. 1-6 credits. May be repeated. A minimum of 5 credits is required. Provides a mentored research experience in areas of faculty research expertise. Graded as "S," "U" or "F."

NURS 797 Research Practicum

Semester course; variable clinical hours. 1-9 credits. May be repeated. A minimum of 3 credits is required. Provides a mentored research experience in a selected area of inquiry or research methodology within the context of the student's selected focus area. Graded as S/U/F.

NURS 798 Thesis

6 credits. The master's thesis constitutes carefully planned and executed research under the supervision of an adviser and in conjunction with a thesis committee. The student writes and presents the required thesis in the area of clinical nursing interest.

NURS 898 Dissertation

Variable hours. 1-12 credits. A minimum of 12 credits is required. Prerequisite: Admission to candidacy. Original research conducted under the supervision of an adviser and in conjunction with a dissertation committee.