

NURSING

NUR

College of Nursing

110 Exploring Nursing
Fall, Spring. 2(2-0)

Introduction to the bio-psycho-social conceptual model of persons in relation to nursing and health. Core concepts and theoretical foundations that frame the art and science of nursing. Development of the profession from inception into contemporary practice and its relationship to the U.S. healthcare system.

202 Introduction to Nursing Practice I

Fall. 2(1-3) R: Open only to students in the College of Nursing.

Theoretical concepts of nursing necessary for professional practice. Assessment, interpersonal communication, documentation, and decision-making.

204 Introduction to Nursing Practice II

Spring. 4(2-6) P: NUR 202 and (PHM 350 or concurrently) C: PHM 350 concurrently.

Nursing practice concepts in simulated and clinical practice settings. Development of nursing practice psychomotor skills.

215 Core Competencies in Nursing I

Fall, Spring. 1(1-0) R: Open only to students in the College of Nursing.

Assessment core nursing competencies applying natural, social and nursing science.

300 Pathophysiology

Fall, Spring, Summer. 4(4-0) P: (ANTR 350) and (PSL 310 or PSL 250) RB: Preprofessional students entering patient care disciplines. Not open to students with credit in NUR 341.

How disrupting normal structures and functions of the human body leads to disease processes from the cellular to the multi-system level. Critical examination of the mechanisms underlying signs and symptoms.

303 Concepts of Nursing Care of the Adult

Fall, Spring. 4(4-0) P: NUR 204 and NUR 341 C: NUR 304 concurrently.

Family centered nursing care for adults at various levels of health and illness. Prototype health states with emphasis on associated nursing diagnosis and professional standards of care.

304 Practicum in Nursing Care of the Adult

Fall, Spring. 4(0-12) P: NUR 204 and NUR 341 C: NUR 303 concurrently.

Nursing care of the adult client with an emphasis on health promotion, disease prevention, care in acute and chronic illness, and rehabilitation.

305 Concepts of Nursing Care of the Childbearing Family

Fall, Spring. 2(2-0) P: NUR 204 and NUR 341 C: NUR 306 concurrently.

Concepts of holistic nursing care with culturally diverse childbearing families during the prenatal, intrapartum, and postpartum periods. Concepts of health promotion and risk factors in client care situations.

306 Practicum in Nursing Care of the Childbearing Family

Fall, Spring. 3(0-9) P: NUR 204 and NUR 341 C: NUR 305 concurrently.

Practicum in nursing care with culturally diverse childbearing families during the prenatal, intrapartum and postpartum periods. Implementation of nursing process in various settings. Levels of risk reduction and health promotion.

307 Concepts of Nursing Care of Children and Their Families

Fall, Spring. 2(2-0) P: NUR 204 and NUR 341 C: NUR 308 concurrently.

Theory and concepts related to the holistic care of children (infancy through adolescence) and their families.

308 Practicum in Nursing Care of Children and Their Families

Fall, Spring. 3(0-9) P: NUR 204 and NUR 341 C: NUR 307 concurrently.

Clinical application of the theoretical concepts presented in NUR 307. Variety of health settings will be utilized for clinical practice.

313 Transition to Baccalaureate Nursing and Online Learning

Fall. 1(1-0) R: Open only to students in the RN tracking major.

Issues, role and scope of baccalaureate nursing practice. Concepts of and applications in online learning.

314 Transition to Professional Nursing

Fall, Spring. 4(3-3) R: Open only to Registered Nurses in the College of Nursing.

Concepts and practicum for role transition for Registered Nurse seeking degree completion. Assessment, documentation, interpersonal skills and concepts of aging with emphasis on clinical decision making and socialization to professional role.

315 Core Competency in Nursing II

Fall, Spring. 1(1-0) P: NUR 215 R: Open only to students in the College of Nursing.

Continuing assessment core of nursing competencies integrating natural, social, and nursing science.

316 Health and Physical Assessment

Fall. 3(1-6) R: Open only to students in the RN tracking major.

Health and physical assessment, documentation and interpersonal skills. Concepts of aging and cultural competence within the context of clinical decision-making.

319 Introduction to Nursing Theory and Research

Spring. 3(3-0) P: (STT 200 or STT 201) or completion of Tier I writing requirement R: Open only to students in the College of Nursing. Not open to PreNursing majors.

Major nursing theories and their application to practice. The research process, terminology and investigations undertaken in nursing.

330 Health Assessment and Nursing Therapeutics

Fall, Spring. 7(3-10) P: NUR 300 C: PHM 350 concurrently or NUR 350 concurrently or NUR 340 concurrently.

Normal physiology and pathophysiology. Theories of growth and development across the life span. Therapeutic communication and physical, psychosocial, cultural and spiritual assessment techniques and mastery of basic nursing therapeutics. Understanding the significance of abnormal findings by system across the lifespan.

340 Foundations of Nursing Practice

Fall, Spring. 4(4-0) P: (NUR 300) and completion of Tier I writing requirement C: PHM 350 concurrently or NUR 330 concurrently or NUR 350 concurrently.

Theories and principles underlying professional nursing practice. Development of basic principles for using empirical evidence and the research process to guide practice.

341 Clinical Problems in Adaptation

Spring. 3(3-0) R: Open only to students in the College of Nursing. Not open to Pre-Nursing majors.

Theoretical concepts related to individual's adaptive-maladaptive responses to stress. Emphasis on pathophysiology.

350 Level I Integrative Seminar

Fall, Spring. 1(2-0) R: Open to students in the Nursing major. C: NUR 330 concurrently and NUR 340 concurrently.

Integration of concepts and theories into beginning level nursing practice. Examination of dynamic interrelationship between professional, scholarly nursing practice, and the health and wellness of diverse persons and populations across the life span.

360 Acute Nursing Care of Adults and Older Adults

Fall, Spring. 8(4-12) P: NUR 350 C: NUR 370 concurrently or NUR 380 concurrently.

Intensive theory course integrating foundational pharmacology, pathophysiology, and first level nursing courses. Addressing acute and chronic conditions in an acute care setting.

370 Mental Health and Psychiatric Nursing

Fall, Spring. 4(2-6) P: NUR 350 and NUR 330 and NUR 340 and PHM 350 C: NUR 360 concurrently or NUR 380 concurrently.

Extension of foundational social science concepts into nursing therapeutics aimed at mental health and the care of persons with mental illnesses. Medication and non-medication interventions, group interventions, and therapeutic environments.

380 Level II Integrative Seminar

Fall, Spring. 1(2-0) P: NUR 350 C: NUR 360 concurrently or NUR 370 concurrently.

Integration of concepts and theories into nursing practice. Dynamic interrelationship between professional, scholarly nursing practice, and health and wellness of diverse adults with medical-surgical and psychiatric illnesses.

400 Pharmacology for Nurses

Spring. 3(3-0) P: NUR 313 and NUR 319 and NUR 341

Principles of nursing management in drug therapy, drug classifications and patient-related variables. Assessment and evaluation of patient responses in relation to health, age, lifestyle, gender, ethnicity and other cultural factors.

401 Aging and Health in the United States

Spring. 3(3-0)

Aging and health in the United States from an individual, family and societal perspective. Examination of selected normal aging changes, theories, concepts, myths and factors associated with healthy aging and quality of life.

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- 402 International Health**
Spring. 3(3-0) Spring: Abroad and Africa.
Factors and dynamics that affect the health of human populations and population status. Role of national governments and international agencies in the policy and planning of health care resources and services.
- 407 Concepts in Community Health Nursing**
Summer. 2(2-0) P: NUR 313 and NUR 316 and NUR 341 and NUR 400 R: Open only to students in the RN tracking major.
Theoretical foundation for contemporary community and public health nursing practice.
- 409 Concepts of Psychiatric, Mental, and Community Health Nursing**
Fall, Spring. 4(4-0) P: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing. Not open to PreNursing majors.
Health care trends and issues in public and mental health. Role, responsibilities, and activities of nurses in the provision of care in public and mental health.
- 410 Practicum in Community Health Nursing**
Fall, Spring. 3(0-9) P: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing. Not open to PreNursing majors. C: NUR 409 concurrently.
Clinical experience in community health nursing focusing on application of public health and nursing principles in the care of individuals, families and aggregates in a variety of settings.
- 412 Practicum in Psychiatric and Mental Health Nursing**
Fall, Spring. 3(0-9) R: Open only to students in the College of Nursing. Not open to PreNursing majors. C: NUR 409 concurrently.
Theoretical perspectives of behavior applied to mental health nursing in a practice setting. Advanced concepts of communication. Use of self, group and milieu are used to define the nurse's role.
- 413 Issues in Professional Nursing**
Fall, Spring. 2(2-0) P: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing.
Past, current, and future impact of selected legal, economic, educational, social, political, ethical, and professional forces on health care and nursing practice at local, national, and international levels.
- 415 Core Competencies in Nursing III**
Fall, Spring. 1(1-0) P: NUR 315 R: Open only to students in the College of Nursing.
Advanced assessment core of nursing competencies synthesizing natural, social, and nursing science.
- 416 Leadership and Management in Nursing**
Fall, Spring. 3(1-2) R: Open only to students in the College of Nursing. Not open to students with credit in NUR 420.
Roles and responsibilities related to leadership and management in nursing practice. Impact of management theories and processes on nursing practice and the delivery of health care within organizations.
- 420 Senior Practicum in Nursing**
Fall, Spring. 4(1-9) R: Open only to students in the College of Nursing. Not open to PreNursing majors.
Synthesis and application of nursing concepts as they relate to health care delivery in a variety of health care settings.
- 422 Nursing in Great Britain**
Summer. 5(5-0) R: Approval of College.
Historical evolution of nursing in the National Health Service: British nursing education, hospital and community health nursing, standards of care, research, and management. Influence of professional nursing upon British national health policies.
- 424 History of Nursing in the United States**
Spring. 2(2-0)
Development of professional nursing education and practice from its inception in the United States. Reading historical documents and identifying specific concepts relative to nursing history. Historical research as a valid means of scholarly inquiry.
- 426 Theoretical Basis for Critical Care**
Fall, Spring, Summer. 2(2-0) P: NUR 304 or NUR 360 R: Open to seniors in the College of Nursing.
Nursing care of clients in critical care, requiring synthesis of pathophysiologic, pharmacologic, and therapeutic concepts. Family theory, stress-adaptation, psychosocial concepts and legal and ethical issues.
- 428 Multicultural Aspects of Health Care**
Spring. 3(3-0)
Improving communication and cultural awareness during the provision of care between culturally different people. Theories and frameworks of transcultural- and multiculturalism. Ethnographic and cultural characteristics of different cultures. Skill building and behavior adaptations within the healthcare arena. Identification of learned stereotypes and methods to overcome them to facilitate and enhance effective care provision.
- 429 Health Care in Ghana (I)**
Summer. 2(2-0) Summer: Abroad and Africa. R: Approval of college.
Major health issues and health care system in western and traditional Ghana culture. Health status indicators and determinants; major programs and strategies; organization of the health care system; access to and payment for care; role, image and status of health care providers; and the interface between western and traditional Ghana health care.
- 430 Nursing Care of the Critically Ill Client**
Fall. 3(2-3) P: NUR 304 and NUR 306 and NUR 308
Advanced medical-surgical nursing concepts. Preceptored practicum.
- 435 Nursing Care of the Childbearing Family**
Fall, Spring. 4(2-6) P: NUR 360 and NUR 370 and NUR 380 C: NUR 440 concurrently and NUR 450 concurrently.
Health promotion and risk assessment of individuals and families during pregnancy and birth. Therapeutic communication and assessment skills for providing holistic care to culturally diverse childbearing families during the prenatal, intrapartum, and postpartum periods. Caring for mother and baby in utero and after birth.
- 440 Nursing Care of Children, Adolescents and Their Families**
Fall, Spring. 4(2-6) P: NUR 360 and NUR 370 and NUR 380 C: NUR 435 concurrently or NUR 450 concurrently.
Theoretical concepts and clinical application of nursing care of infants, children, and adolescents in varied health care and community settings. Synthesis of pathophysiologic, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures.
- 450 Level III Integrative Seminar**
Fall, Spring. 1(2-0) P: NUR 380 C: NUR 435 concurrently or NUR 440 concurrently.
Integration of concepts and theories into intermediate-level nursing practice. Dynamic interrelationship between professional, scholarly nursing practice and health and wellness of diverse families, from childbearing through adolescence.
- 460 Leadership Clinical Immersion**
Fall, Spring. 5(2-9) P: (NUR 435 and NUR 440 and NUR 450) and completion of Tier I writing requirement C: NUR 470 concurrently or NUR 480 concurrently.
Theories, principles, and practices of leadership, management, and nursing care delivery systems in a variety of agency settings. Application of theories and principles in a mentored practicum.
- 470 Community and Population Health Nursing**
Fall, Spring. 4(2-6) P: NUR 435 and NUR 440 and NUR 450 C: NUR 460 concurrently and NUR 480 concurrently.
Theoretical and practicum basis for community-oriented population nursing practice. Promoting and protecting the health of the public using health promotion, risk reduction, and disease management and control strategies with vulnerable persons and populations. Community assessment, epidemiologic, environmental, change, political action, and case-management frameworks are used to guide evidence-based nursing care delivery to persons, families, and populations in community settings.
- 480 Role Transition Seminar**
Fall, Spring. 2(4-0) P: (NUR 450) and completion of Tier I writing requirement C: NUR 460 concurrently or NUR 470 concurrently.
Advanced-level concepts and theories for entry-level nursing practice. Dynamic interrelationship between professional, scholarly nursing practice, and health and wellness of diverse populations and health care organizations.
- 490 Independent Study in Nursing**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in the College of Nursing. Not open to PreNursing majors. Approval of college.
Individualized area of study in Nursing.
- 491 Special Topics**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the College of Nursing. Not open to PreNursing majors.
Exploration of selected issues in nursing.
- 801 Advanced Professional Role**
Fall. 2(2-0) R: Open only to master's students in the College of Nursing. SA: NUR 501
Exploration of the roles of the Master of Science in Nursing graduate in contemporary health care organizations. Cost and value of the MSN. Role in collaborate care and managed care. Evaluation of individual impact on quality of health care.
- 803 Conceptual and Theoretical Frameworks**
Fall. 3(3-0) R: Open only to master's students in the College of Nursing or approval of college.
Conceptual and theoretical frameworks and their applicability to advanced nursing practice, teaching, and research.

- 805 Pathophysiology for Advanced Practice Nursing**
Fall. 3(3-0) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 511
Alterations of various physiological systems. Pathophysiology of frequently encountered primary care conditions across the life span and special populations. In-depth case analysis of risk factors, pathophysiological changes, and associated clusters of signs and symptoms. Pathophysiological theories and research as a basis for advanced practice nursing.
- 807 Clinical Decision Making**
Spring. 3(1-6) P: NUR 805 and (NUR 820 or NUR 830) R: Open to masters students in the College of Nursing.
Clinical decision making in advanced practice nursing. Decision theory and related concepts. Application of critical thinking and clinical judgment to differential diagnoses of common primary care conditions.
- 809 Applied Pharmacology for Primary Care**
Spring. 3(3-0) P: NUR 805
Clinical application of advanced pharmacology and pharmacotherapeutics for common disease conditions encountered in primary care settings. Principles of altered pharmacodynamics relative to age, race, and ethnic groups. Cost/benefit aspects of pharmacological interventions.
- 810 Issues in Community-Based Care**
Spring, Summer. 3(3-0) P: NUR 801 and NUR 803
Conceptual basis for the analysis of health care issues. Health promotion, risk reduction, health disparities, evidence and population-based health care. Cultural competence and ethical issues related to health care within the context of primary care.
- 812 Complementary Therapies in Health Care**
Fall. 3(3-0) RB: Coursework in anatomy, physiology, pharmacotherapeutics, nutrition, basic psychology or developmental theory R: Approval of college.
Use of complementary therapies across the lifespan. Current state of knowledge, framework of selected therapies, translation and application of evidenced based therapies.
- 815 Research and Evaluation for Master's Level Prepared Nurses**
Spring. 4 to 5 credits. R: Open to graduate students in the Master of Science in Nursing. SA: NUR 811, NUR 813
Concepts and principles of scientific investigation, including research design, measurement, sampling, ethics, and selected analysis techniques commonly used in nursing and related health disciplines and evaluation research.
- 820 Health Assessment of the Family**
Fall. 3(1-6) RB: Open only to students in the Nurse Practitioner concentration. R: Open to students in the Master of Science in Nursing. Approval of college. SA: NUR 500
Advanced assessment component of the nursing process to analyze the health status of children and adults across the lifespan.
- 821 Primary Care Management of the Family I**
Summer. 4(4-0) P: NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 815 and NUR 820 SA: NUR 522
Principles and issues of health care management for family advanced practice nurses in primary care. Health promotion, disease prevention, and single acute problems of individuals across the life span and for diverse populations. Analysis of primary care practice topics using family frameworks and evidence based research.
- 822 Practicum I: Primary Care for the Family**
Fall. 6(0-18) P: NUR 815 and NUR 821 SA: NUR 522
Integration of assessment and applied theory in primary care management of clients across the life span. Collaborative model of primary care practice. Health promotion, health maintenance management, and risk reduction strategies for individuals within the context of family. Single acute condition focus. Problem-oriented format for organizing client data.
- 823 Primary Care Management of the Family II**
Fall. 3(3-0) P: NUR 815 and NUR 821 SA: NUR 524
Principles and issues of health care management for family advanced practice nurses in primary care. Health care management of clients across the life span with chronic, stable and/or multiple complex problems. Integration and synthesis of relevant frameworks.
- 824 Practicum II: Primary Care for the Family**
Spring. 7(0-21) P: NUR 822 and NUR 823 SA: NUR 524
Integration of assessment and applied theory in primary care management of clients across the lifespan. Collaborative model of primary care practice. Health care management of chronic, stable and multiple complex problems of individuals within the context of family. Increasingly independent decision making with preceptor validation.
- 830 Health Assessment of Older Adults**
Fall. 2(0-6) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 500
Collection of comprehensive subjective and objective data for practice as a gerontological advanced practice nurse. Development of advanced health history and physical assessment skills of adults, focusing on older adults. Interview, communication, and psychomotor skill development.
- 831 Primary Care Management of Older Adults I**
Summer. 4(4-0) P: NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 815 and NUR 830 SA: NUR 532
Principles and issues of health care management for gerontological advanced practice nurses in primary care. Research based biological, pharmacological, and psychosocial factors and theories of aging. Health promotion. Evaluation, coordination, and treatment of infectious states. Care of chronic, stable conditions. Common age changes and social networks. Professional, legal, ethical, and political
- 832 Practicum I: Primary Care for Older Adults**
Fall. 6(0-18) P: NUR 815 and NUR 831 SA: NUR 532
Integration of assessment and applied theory in primary care management of older clients from a variety of ethnic and cultural groups. Collaborative model of primary care practice. Evaluation and treatment of infectious states. Care of chronic, stable conditions. Practice issues including ethical, legal, and political aspects of advanced practice nurses.
- 833 Primary Care Management of Older Adults II**
Fall. 3(3-0) P: NUR 815 and NUR 831 SA: NUR 534
Principles and issues of health care management for gerontological advanced practice nurses in primary care. Management of the older client with complex health problems and functional losses. Research based biological, pharmacological, and psychosocial theories of aging. Coordination of care involving multiple health care agencies.
- 834 Practicum II: Primary Care for Older Adults**
Spring. 7(0-21) P: NUR 832 and NUR 833 SA: NUR 534
Integration of assessment and applied theory in primary care management of older clients from a variety of ethnic and cultural groups. Health care management of clients with complex health problems and functional losses. Collaborative model of primary care practice. Development and evaluation of long term management plans. Coordinating care involving multiple agencies.
- 841 Health Care Policy in Perspective: Economics, Politics and Ethics**
Spring. 2(2-0) SA: NUR 503
Economic, political and regulatory environment of the U.S. health care system. Quality, costs, equity in access of services. Comparison of U.S. systems with those of other advanced industrial countries.
- 845 Women and Health in the United States: A Sociological and Nursing Perspective**
Spring. 3(3-0) R: Open only to seniors or graduate students. SA: NUR 541
Health status of contemporary women. Role of women as consumers and providers of health care. Health care delivery in the U.S.
- 850 Health Assessment of Adults**
Fall. 3(1-6) RB: Open only to students in the Nurse Practitioner concentration. R: Open to students in the Master of Science in Nursing or approval of college. Not open to students with credit in NUR 820.
Advanced assessment component of the nursing process to analyze the health status of adults.
- 851 Primary Care Management of the Adult I**
Fall. 4(2-6) P: NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 815 and NUR 850
Principles and issues of health care management for adult advanced practice nurses in primary care. Health promotion, disease prevention, and single acute problems of adults from diverse populations. Analysis of primary care practice topics using family frameworks and evidence based research.

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- 852 Practicum I: Primary Care for the Adult**
Fall. 6(0-18) P: NUR 851
Integration of assessment and applied theory in primary care management of adult clients. Collaborative model of primary care practice. Health promotion, health maintenance management, and risk reduction strategies for individuals within the context of family. Single acute condition focus. Problem oriented format for organizing client data.
- 853 Primary Care Management of the Adult II**
Fall. 3(3-0) P: NUR 852
Principles and issues of health care management for adult advanced practice nurses in primary care. Health care management of adults with chronic, stable and/or multiple complex problems. Integration and synthesis of relevant frameworks.
- 854 Practicum For Primary Care Adult Advanced Practice Nurses II**
Spring. 7(0-21) P: NUR 853 R: Open only to students in the Master of Science degree in Nursing.
Integration and application of assessment and relevant conceptual and theoretical frameworks in the primary care management of adults within the context of family using a "collaborative model" of primary care practice. Management of complex and stable chronic health problems. Independence in practice. Independent decision making with preceptor validation.
- 861 Curriculum Design in Nursing Education**
Spring. 3(3-0) P: NUR 801
Theories, standards and techniques to design, deliver and evaluate a curriculum and learner outcomes.
- 865 Nursing Education Seminar**
Spring. 2(2-0) R: Approval of college.
Syntheses of teaching and learning, curricular development, and learner-evaluation theories and strategies. Curricular design and unique characteristics of academic and clinical instruction and learning.
- 866 Academic Internship in Nursing Education**
Fall. 3(1-6) P: NUR 861 R: Approval of college.
Development of theory-based curricula in an academic environment. Evaluation of teaching effectiveness and learner outcomes.
- 867 Clinical Internship in Nursing Education**
Spring. 4(1-9) P: NUR 861 R: Approval of college.
Application and evaluation of teaching and learning principles in a diverse health care setting.
- 871 Evidenced Based Care Management**
Fall, Spring. 4(4-0) R: Open only to students in the Master of Science in Nursing or approval of college.
Framework for integrating evidence-based care for groups of clients and client populations into an individualized multidisciplinary plan of care.
- 872 Leading for a Quality Environment**
Fall, Spring. 3(3-0) R: Open only to students in the Master of Science in Nursing or approval of college.
Leadership and change theories that facilitate collaboration among interdisciplinary health team members. Delegation, supervision, interdisciplinary care, group dynamics, conflict resolution, collaboration, communication, team building, and skills in quality improvement processes within the healthcare setting.
- 873 Clinical Nurse Leader Residency**
Fall, Spring. 8(0-24) P: NUR 871 and NUR 872 R: Open to students in the Master of Science in Nursing.
Intense immersion at the point of care. Application of theory and research-based knowledge and skills related to nursing leadership, clinical outcomes management, and care environment management.
- 877 Anesthesia Physiology and Pathophysiology**
Spring. 3(3-0) R: Approval of college.
Physiological principles and pathophysiological relationships of body systems. Evaluation of co-existing pathophysiology.
- 878 Advanced Physiology and Pathophysiology**
Summer. 3(3-0) P: NUR 877
Homeostatic mechanisms in relation to anesthetic case management.
- 879 Chemistry and Physics of Anesthesia**
Spring. 3(3-0) R: Approval of college.
Basic chemistry and physics and their relationship to nurse anesthesia practice. Organic and biochemical principles, and pharmacological significance. Integration and application of these principles to nurse anesthesia practice.
- 880 Health Assessment for Nurse Anesthesia**
Summer. 3(1-6) P: NUR 877
Advanced systematic focus on the health assessment of patients preparing for anesthesia, and integration of the anesthesia management plans.
- 881 Perioperative Technology and Instrumentation**
Summer. 2(2-0) P: NUR 879
Physics and mechanics of mechanical and electronic anesthesia delivery systems. Physical principles involved in the vaporization and distribution of volatile liquids. Anesthesia ventilators and breathing circuits. Risk management and analysis of resuscitative equipment.
- 882 Principles of Anesthesia I**
Summer. 3(3-0) P: NUR 879
Art and science of nurse anesthesia and basic principles of anesthesia practice. History of anesthesia administration. Use and care of anesthesia related equipment.
- 883 Principles of Anesthesia II**
Fall. 3(3-0) P: NUR 882
Advanced anesthesia care principles. Procedures and complications in the anesthetic management of the emergency and trauma patient. Considerations for specialty surgical areas.
- 884 Principles of Anesthesia III**
Spring. 3(3-0) P: NUR 883
Foundations for the clinical practice of anesthesia. Integrating physiologic patient parameters, didactic knowledge, and technical skills in simulated and clinical environments.
- 885 Anesthesia Practicum I**
Summer. 1(0-3) P: NUR 879
Design and management of the operating room. Principles and techniques of sterility, intravenous and arterial cannulation, and course of anesthesia. Basic drugs and monitors, anesthesia management plan, documentation, and ethical considerations in anesthesia practice.
- 886 Anesthesia Practicum II**
Fall. 2(0-6) P: NUR 885
Integration of knowledge, skills and program objectives to a broader array of patients in simulated and clinical patient environments.
- 887 Pharmacology for Anesthesia Practice I**
Fall. 3(3-0) P: NUR 877
Pharmacology and its applications to clinical anesthesia practice.
- 888 Pharmacology for Anesthesia Practice II**
Spring. 3(3-0) P: NUR 887
Pharmacologic principles of drug pharmacokinetics and pharmacodynamics. Factors modifying anesthetic management of patients.
- 890 Special Problems**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 590
Individual or group in-depth study of specific areas in nursing. Independent study.
- 891 Selected Topics**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 591
Selected issues, trends, programs, or theories in nursing.
- 892 Clinical Practicum I**
Summer. 7(0-35) P: NUR 886
Individualized faculty-guided instruction in the management of patients receiving anesthesia, emphasizing safety, monitoring modalities, and daily anesthesia management plans.
- 893 Specialty Practicum I**
Fall. 7(0-35) P: NUR 892
Integration of didactic curriculum and clinical experiences in general and regional sub-specialty practice during regular and off-shift procedures. Care of the obstetrical, pediatric, neurosurgical, and trauma patient.
- 894 Specialty Practicum II**
Spring. 7(0-35) P: NUR 893
Faculty-supervised independent clinical practice focusing on the entire spectrum of anesthesia care, including pain management, in outpatient clinic, emergency, parturient, neonatal, and traumatic practice settings.
- 895 Clinical Seminar I**
Summer. 2(2-0) P: NUR 886
Anesthesia management plans and outcomes. Evaluation of research and other literature pertinent to the safe practice of anesthesia.
- 896 Clinical Seminar II**
Fall. 2(2-0) P: NUR 895
Review of research literature relevant to the safe practice of anesthesia. Presentation of case studies as related to pathophysiological states and safe anesthesia delivery.
- 897 Clinical Seminar III**
Spring. 2(2-0) P: NUR 896
Review of research literature and clinical projects relevant to the safe practice of anesthesia. Presentation of scholarly project.

899 Master's Thesis Research

Fall, Spring. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: NUR 811 R: Open only to master's students in the College of Nursing. Approval of college.

Master's thesis research.

901 Knowledge Development in Nursing

Fall. 3(3-0) R: Open only to doctoral students in the College of Nursing or approval of college.

Development and growth of substantive knowledge within nursing. Middle range theories. Strategies for concept development and theory testing in nursing research for understanding health status and health outcomes for individuals, families and community-based primary care.

910 Health Status Outcomes: The Individual and Family

Spring. 3(3-0) R: Open to all doctoral students or approval of college

Measurement and conceptual underpinnings of health status outcomes for individuals and families across the life span. Focus on well-being in health and illness within community based primary care.

911 Health Status Outcomes: Community/Primary Care

Fall. 3(3-0) R: Open to all doctoral students or approval of college.

Measurement of health status outcomes for populations across the life span within the community based primary care systems. Measurement and evaluation issues related to the costs of intervention to impact outcomes.

920 Translation of Research and Scientific Knowledge to a Community Setting

Spring. 3(2-3) R: Open to doctoral students in the Nursing major or approval of college.

The systematic application of scientific knowledge to inform clinical practice, policy and delivery system changes to enhance the health status and health outcomes of community populations. Translation strategies include dissemination, networking, program development and evaluation. Opportunities for translation will occur in primary health care, organizational and governmental systems.

930 Methods In Clinical Research

Spring. 3(2-3) R: Open to all doctoral students or approval of college.

Advanced research designs, measurement and data collection strategies. Draws on a broad range of behavioral and health disciplines relevant to nursing. Logic of statistical models used in the evaluation of research designs and measures.

940 Research Practicum

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to doctoral students in the College of Nursing or approval of college.

Practical experiences as a researcher through participation in ongoing research of nursing faculty and as a member of an interdisciplinary research team.

950 Nursing Research Seminar I

Fall. 1(1-0) R: Open to doctoral students in the College of Nursing or in the Nursing major or approval of college.

Socialization of doctoral study and research environment. Roles and responsibilities of clinical nurse researcher. Pragmatic facets of research process and environment.

951 Nursing Research Seminar II

Spring. 1(1-0) P: NUR 950 R: Open to doctoral students in the College of Nursing or in the Nursing major or approval of college.

Continuation of NUR 950. Socialization to doctoral study and research environment. Responsibilities of clinical nurse researcher including responsible conduct of research. Synthesis of course work and relevant research methodologies into own research. Dissemination of research.

990 Special Problems

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to doctoral students in the College of Nursing or approval of college.

Individual or group in-depth study of specific areas in nursing research.

999 Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 24 credits. R: Open only to doctoral students in the College of Nursing or approval of college.

Original research of student under supervision of major advisor.