Nursing Science (NUR SCI)

Courses

NUR SCI 92. Compassion in Health Care. 1 Unit.
An overview of the importance of compassion in health care, providing examples from a variety of health care professions through lectures and discussion.

Grading Option: Pass/no pass only.

NUR SCI 110W. Frameworks for Professional Nursing Practice. 5 Units.
Conceptual frameworks for professional practice. Scope of professional nursing, jurisprudence and ethics, professional interpersonal relationships, and health care delivery systems in the context of the social, political, and economic environments. Socialization of the student for professional roles in nursing.

Corequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A.
Prerequisite: BIO SCI D170 and BIO SCI E109. Satisfactory completion of the Lower-Division Writing requirement.

Restriction: Upper-division students only. Nursing Science majors only.

NUR SCI 112LA. Foundations of Professional Practice. 3 Units.
Development of skills in communication, interviewing, functional and physical health assessment across the life span, the art and science of human care, and clinical judgment.

Corequisite: NUR SCI 110W and NUR SCI 114A and NUR SCI 118A.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 112LB. Foundations of Professional Practice. 4 Units.
Development of skills in communication, interviewing, functional and physical health assessment across the life span, the art and science of human care, and clinical judgment.

Corequisite: NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 112LA and NUR SCI 110W and NUR SCI 114A and NUR SCI 118A.

Restriction: Nursing Science majors only.

NUR SCI 114A. Applied Pharmacology I. 2 Units.
Presents principles of pharmacology applied to interventions in pathophysiologic states across the life span. Discussion of the major drug groups with implications for monitoring, drug administration, toxicity, and patient education are included.

Corequisite: NUR SCI 110W and NUR SCI 118A and NUR SCI 112LA.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 114B. Applied Pharmacology II. 2 Units.
Presents principles of pharmacology applied to interventions in pathophysiologic states across the life span. Discussion of the major drug groups with implications for monitoring, drug administration, toxicity, and patient education are included.

Corequisite: NUR SCI 118B and NUR SCI 112LB and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 114A and NUR SCI 118A and NUR SCI 110W and NUR SCI 112LA.

Restriction: Nursing Science majors only.
NUR SCI 118A. Human Health and Disease I. 2 Units.
Presents content on pathologic alterations in physiologic processes in cells, tissues, organs, and systems across the life span. Emphasis on critical thinking, application of concepts to clinical practice, and related research.

Corequisite: NUR SCI 114A and NUR SCI 112LA and NUR SCI 110W.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 118B. Human Health and Disease II. 2 Units.
Presents content on pathologic alterations in physiologic processes in cells, tissues, organs, and systems across the life span. Emphasis on critical thinking, application of concepts to clinical practice, and related research.

Corequisite: NUR SCI 114B and NUR SCI 112LB and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and NUR SCI 110W.

Restriction: Nursing Science majors only.

NUR SCI 120. Adult Health Care. 8 Units.
Restorative, perioperative, supportive care of adults with acute/chronic alterations in oxygenation, regulation, immune response, elimination, metabolism, mobility, cognition, and substance abuse. Concurrent practicum occurs in inpatient medical-surgical units, perioperative units and outpatient clinics utilizing critical thinking and research skills.

Corequisite: NUR SCI 140.
Prerequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.

Restriction: Nursing Science majors only.

NUR SCI 125. Research Methods and Applications in Health Care. 4 Units.
Foundational concepts of research in health care. Emphasizes critical evaluation and interpretation of research for application in practice.

Corequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 135.
Prerequisite: NUR SCI 110W and NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and a basic statistics course.

Restriction: Nursing Science majors only.

NUR SCI 130. Maternity and Women’s Health Care. 8 Units.
Provides didactic and clinical experiences in nursing management of women’s wellness across the lifespan, the childbirth process, and newborn care. Incorporates concepts of family-centered care, teamwork and collaboration, patient safety, quality improvement and informatics, utilizing an evidence-based practice approach.

Corequisite: NUR SCI 132.
Prerequisite: NUR SCI 120 and NUR SCI 140 and PSYCH 120D.

Restriction: Nursing Science majors only.

NUR SCI 132. Pediatrics: Care of Children and Families. 7 Units.
Provides didactic and clinical experiences in nursing management of infants, children, and adolescents with acute, chronic and/or life-threatening conditions. Incorporates concepts of family-centered care, teamwork and collaboration, patient safety, quality improvement and informatics, utilizing an evidence-based practice approach.

Corequisite: NUR SCI 130.
Prerequisite: NUR SCI 120 and NUR SCI 140 and PSYCH 120D.

Restriction: Nursing Science majors only.

NUR SCI 135. Older Adult Health Care. 2 Units.
Theories of aging and application of principles of gerontology in health maintenance of older adults. Concepts and principles of rehabilitation and palliative care.

Corequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125.
Prerequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and NUR SCI 110W.

Restriction: Nursing Science major only.
NUR SCI 140. Human Behavior and Mental Health Care. 8 Units.
Biopsychosocial and cultural influences on promotion and restoration of mental health in adults and adolescents. Assessment, classification, and care of clients with mental health problems and/or substance abuse. Concurrent practicum in adult/adolescent inpatient psychiatric units and outpatient mental health clinics.

Corequisite: NUR SCI 120.
Prerequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.

Restriction: Nursing Science majors only.

NUR SCI 150. Critical and Specialty Health Care. 6 Units.
Delivery of patient centered care for individuals with life-threatening alterations in health status utilizing technology and pharmacology for life support. Concurrent practicum in critical care units emphasizes collaboration, team work, and quality improvement in safe care delivery.

Corequisite: NUR SCI 160 and NUR SCI 179A.
Prerequisite: NUR SCI 130 and NUR SCI 132.

Restriction: Nursing Science majors only.

NUR SCI 160. Leadership and Management in Health Care. 4 Units.
Principles, concepts, and theories related to organizations, management, leadership, decision-making, and group process applied to the delivery of health care. The professional nurse using evidenced based practice, collaboration and informatics is incorporated in concurrent practicum emphasizing safe patient care delivery.

Corequisite: NUR SCI 150 and NUR SCI 179A.
Prerequisite: NUR SCI 130 and NUR SCI 132.

Restriction: Nursing Science majors only.

NUR SCI 170. Community-Based Health Care. 6 Units.
Epidemiology, primary health care promotion, and disease prevention applied to nursing care of individuals, families, groups, and communities. Includes sociocultural, political, economic, and environmental influences. Concepts and methods of assessing populations and communities incorporated in concurrent practicum.

Corequisite: NUR SCI 175L and NUR SCI 179B.
Prerequisite: NUR SCI 150 and NUR SCI 160 and NUR SCI 179A.

Restriction: Nursing Science majors only.

NUR SCI 175L. Clinical Preceptorship. 8 Units.
Independent study course focusing on critical thinking skills for nursing practice in selected clinical areas of interest to the student. The clinical experience focus will be on core competencies: patient-centered care, evidence-based practice, quality improvement, safety and informatics.

Corequisite: NUR SCI 170 and NUR SCI 179B.
Prerequisite: NUR SCI 150 and NUR SCI 160 and NUR SCI 179A.

Grading Option: Pass/no pass only.

Restriction: Nursing Science majors only.

NUR SCI 179A. Scholarly Concentration I. 2 Units.
Independent study focusing on the research process to provide the evidence basis for a nursing protocol in an area of interest to the student.

Corequisite: NUR SCI 150 and NUR SCI 160.
Prerequisite: NUR SCI 130 and NUR SCI 132.

Restriction: Nursing Science majors only.

NUR SCI 179B. Scholarly Concentration II. 2 Units.
Second of two sequential courses focusing on analysis of research as evidence to support a nursing protocol in an area of interest to the student. Emphasizes formal development and dissemination of information to peers in a podium/poster session.

Corequisite: NUR SCI 170 and NUR SCI 175L.
Prerequisite: NUR SCI 179A.

Restriction: Nursing Science majors only.
NUR SCI 199. Independent Study in Nursing Science. 1-4 Units.
Original research with Nursing Science faculty.
Repeatability: May be repeated for credit unlimited times.

NUR SCI 200. Research Methods and Evaluation for Evidence-Based Practice. 3 Units.
Clinical research methods and evaluation procedures relevant to evidence-based advanced nursing practice.
Prerequisite: Undergraduate statistics course; undergraduate nursing research course.
Restriction: Nursing Science graduate students only.

NUR SCI 210. Advanced Pathophysiology. 3 Units.
Principles of normal body functioning and pathophysiologic changes that occur as a result of compensatory mechanisms and disease. Physical and psychological aspects of altered health are explored from the cellular to the level of the total body system.
Restriction: Nursing Science graduate students only.

NUR SCI 212. Philosophy of Science and Theory Development in Nursing Science. 4 Units.
Development of philosophy of science in relation to nursing science, scholarship, and practice; emphasis on inquiry, scientific reasoning, and contemporary philosophical thought; historical and contemporary influences on nursing science theory development; evaluation/analysis of interdisciplinary theory and application to nursing research.
Restriction: Graduate students only.

NUR SCI 215. Health Promotion/Disease Prevention. 3 Units.
Covers the evidence-based national clinical preventive services guidelines for health promotion and disease prevention. Emphasizes counseling about personal health behaviors, screening tests for the early detection of risk factors and disease, immunizations and chemo-prophylaxis.
Restriction: Nursing Science graduate students only.

NUR SCI 220. Nursing Science and the Ecology of Healthy Communities. 2 Units.
Seminar in nursing science research contributions and opportunities as they pertain to the ecology of health in local, national, and global communities. Emphasis on methodological and ethical issues, research gaps, and clinical translational opportunities.
Restriction: Graduate students only.

NUR SCI 222A. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.
Restriction: Graduate students only.

NUR SCI 222B. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.
Prerequisite: NUR SCI 222A.
Restriction: Graduate students only.

NUR SCI 222C. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.
Prerequisite: NUR SCI 222B.
Restriction: Graduate students only.

NUR SCI 225A. Advanced Pharmacology. 2 Units.
Principles of pharmacology that serve as a foundation for the pharmacotherapeutic management of patients evaluated and treated by advanced practice nurses. Emphasis includes that application of pharmacokinetic and pharmacodynamic principles.
Restriction: Nursing Science graduate students only.
NUR SCI 225B. Advanced Pharmacology. 3 Units.
Principles of pharmacology that serve as a foundation for the pharmacotherapeutic management of patients evaluated and treated by advanced practice nurses. Emphasis includes that application of pharmacokinetic and pharmacodynamic principles.

Prerequisite: NUR SCI 225A.
Restriction: Nursing Science graduate students only.

NUR SCI 230. Advanced Health and Physical Assessment. 3 Units.
Application of theoretical concepts related to comprehensive health assessment of patients across the lifespan. Analysis, synthesis, and application of comprehensive health assessment data.

Corequisite: NUR SCI 230L.
Restriction: Nursing Science graduate students only.

NUR SCI 230L. Advanced Health and Physical Assessment Laboratory. 1 Unit.
Clinical laboratory course for the application of concepts related to comprehensive health assessment of patients across the lifespan.

Corequisite: NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 245A. Primary Care. 3 Units.
Assessment and management of acute or episodic problems affecting patients and families across the lifespan. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.

Prerequisite: NUR SCI 210 and NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 245B. Primary Care. 3 Units.
Assessment and management of acute or episodic problems affecting patients and families across the lifespan. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.

Prerequisite: NUR SCI 245A.
Restriction: Nursing Science graduate students only.

NUR SCI 246. Qualitative Research Designs in Nursing Science. 4 Units.
Seminar in qualitative research philosophies, methods and analysis in nursing science clinical research. Consideration of population access and sampling, ethics, data management, analytical approaches, and translational potential.

Corequisite: NUR SCI 212.

NUR SCI 247. Quantitative Research Designs in Nursing Science. 4 Units.
Seminar in experimental and survey research designs, methods, and analysis in nursing science clinical research. Consideration of measurement issues, mixed methods models, population access and sampling, data management, analytical approaches, and translational potential.

Prerequisite: NUR SCI 212.

NUR SCI 250. Primary Care Women's Health. 3 Units.
Primary health care needs of women including adolescent, adult and aging adults. Emphasizes assessment, diagnosis, prevention, management, and education of common gynecologic and family planning health care needs.

Prerequisite: NUR SCI 210 and NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 255. Primary Care Obstetrics. 3 Units.
Assessment and management of women during pregnancy. Diagnostics, pharmacology, pathophysiology and therapeutics are integrated. Includes assessment, differential diagnosis, management, patient/family education, & counseling related to normal pregnancy care.

Prerequisite: NUR SCI 245A and NUR SCI 210 and NUR SCI 230 and NUR SCI 230L.
Restriction: Nursing Science graduate students only.
NUR SCI 260A. Primary Care Adult/Geriatric. 3 Units.
Assessment and management of acute or episodic problems affecting adult and geriatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutic are integrated.
Prerequisite: NUR SCI 245A.
Restriction: Nursing Science graduate students only.

NUR SCI 260B. Primary Care Adult/Geriatric. 3 Units.
Assessment and management of acute or episodic problems affecting adult and geriatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutic are integrated.
Prerequisite: NUR SCI 260A.
Restriction: Nursing Science graduate students only.

NUR SCI 270. Primary Care Pediatrics. 3 Units.
Assessment and management of acute or episodic problems affecting pediatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.
Prerequisite: NUR SCI 245A and NUR SCI 210 and NUR SCI 230 and NUR SCI 230L.
Restriction: Nursing Science graduate students only.

NUR SCI 280. Aging and Chronic Illness. 3 Units.
Assessment and management of the geriatric patient. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated. Includes assessment, differential diagnosis, management, patient/family education, and counseling related to aging.
Prerequisite: NUR SCI 260B.
Restriction: Nursing Science graduate students only.

NUR SCI 281. Frameworks for Advanced Professional Practice in Nursing. 3 Units.
Provides an orientation to the scope and standards of advanced professional nursing practice. Principles of jurisprudence, ethics, and advocacy are introduced along with conceptual frameworks for nursing practice.
Restriction: Nursing Science graduate students only.

NUR SCI 282. Human Behavior and Mental Health Care for Advanced Practice. 3 Units.
Focuses on theory and research related to the psychiatric illness and sociocultural factors such as race, ethnicity, gender, and class which may impact patients across their life span. Emphasis includes assessment, diagnosis, management, patient/family education, lifestyle modification, and counseling strategies.
Restriction: Nursing Science graduate students only.

NUR SCI 283. Primary Care Procedures. 3 Units.
Introduces the theoretical basis for common procedures performed in primary care clinical practice. Focus includes EKG interpretation, x-ray interpretation, minor surgery and orthopaedic procedures.
Prerequisite: NUR SCI 245A.
Restriction: Nursing Science graduate students only.

NUR SCI 284. Advanced Practice Scholarly Concentration. 3 Units.
Independent study focusing on critique, analysis, and synthesis of research evidence as a basis for advanced practice nursing in an area of interest to the student.
Prerequisite: NUR SCI 200.
Restriction: Nursing Science graduate students only.
NUR SCI 285. APN Clinical Practicum I. 2 Units.
Clinical application of theory and research related to the advanced assessment and health promotion of patients across the lifespan.

Prerequisite: NUR SCI 210 and NUR SCI 230.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 286. APN Clinical Practicum II. 4 Units.
Clinical field study applying theory, research, and developing clinical skills related to the provision of care to patients and their families in increasingly complex clinical situations.

Prerequisite: NUR SCI 285.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 287. APN Clinical Practicum III. 5 Units.
Clinical application of theory and research through clinical experiences in selected primary care settings designed to provide students with competencies in the assessment, diagnosis, management, and education/counseling in selected populations.

Prerequisite: NUR SCI 286.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 288. APN Clinical Practicum IV. 6 Units.
Continued clinical application of theory and research through clinical experiences in selected primary care settings designed to provide students with competencies in the assessment, diagnosis, management, and education/counseling in selected populations.

Prerequisite: NUR SCI 287.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 289. APN Clinical Practicum V. 6 Units.
Culminating clinical experience serves as a transition from the student role to that of the advanced practice nurse.

Prerequisite: NUR SCI 288.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 294. Directed Study in Vulnerable Populations. 1-4 Units.
Independent study that focuses on individually designed clinical learning experiences and goals within a selected vulnerable population, such as the homeless, veterans, minority groups, etc. Students work in a clinical setting addressing health care needs of the vulnerable population(s).

Prerequisite: NUR SCI 286.
Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be taken for credit 2 times.
Restriction: Nursing Science graduate students only.
NUR SCI 295. Directed Study in Latino Health Care. 2-4 Units.
Independent study in Latino health care.
Prerequisite: NUR SCI 286. Spanish language skills.
Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be taken for credit 2 times.
Restriction: Nursing Science graduate students only.

NUR SCI 296. Doctoral Dissertation Reading and Writing. 4-12 Units.
Dissertation research with Nursing Sciences faculty.
Prerequisite: Advancement to Candidacy.
Repeatability: May be repeated for credit unlimited times.

NUR SCI 298. Directed Studies in Nursing Science. 1-4 Units.
Directed study with Nursing Science faculty.
Repeatability: May be repeated for credit unlimited times.
Restriction: Graduate students only.

NUR SCI 299. Independent Study in Nursing Science. 1-4 Units.
Independent research with Nursing Science faculty.
Repeatability: May be repeated for credit unlimited times.
Restriction: Graduate students only.

NUR SCI 399. University Teaching. 4 Units.
Limited to Teaching Assistants.
Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be repeated for credit unlimited times.