NURSING (NURS)

NURS 061 Biologically-Based Chemistry
A contextual approach will be used in studying the concepts in General, Organic and Biological Chemistry that are foundational to an understanding of normal cellular processes. Topics that will be covered include measurements, atomic structure, bonding, chemical reactions, properties of gases and liquids, solutions, equilibrium, acids and bases, pH, buffers, nuclear chemistry, nomenclature and properties of the main organic functional groups, and the structures and function of carbohydrates, proteins and lipids.
Taught by: Lafferty-Della Valle
Course usually offered in fall term
Prerequisite: One year of high school general chemistry or its equivalent
Activity: Lecture
0.5 Course Units
Notes: 0.5 course units

NURS 065 Fundamentals of Nutrition
Essentials of normal nutrition and their relationships to the health of individuals and families. These concepts serve as a basis for the development of an understanding of the therapeutic application of dietary principles and the nurse's role and responsibility in this facet of patient care.
Taught by: Compher; Dolan; Caspar-Clark
Course usually offered in spring term
Prerequisite: NURS 061; NURS 062 (or equivalent Science Sequence Courses)
Activity: Lecture
1 Course Unit

NURS 068 Integrated Cell Biology and Microbiology
This course will include the major topics of cell biology and microbiology that are foundational for an understanding of normal and pathological cellular processes. Topics will include the brief study of prokaryotic and eukaryotic cell structures and functions; the main biological molecules; membrane transport; cellular communications; the flow of genetic information; cell division; and cellular metabolism. The course will also examine the role of cells and microbes in human health and infectious diseases. It will include a description of the main types of microbes, how they are identified, their growth requirements, and the role of the immune system in controlling infections, the control of microbes, host-microbe interactions. The context for this course will be the application of cell biology and microbiology for understanding the cellular basis of cancer and infectious human infection disease processes. This course will include special sessions from a clinical perspective in the various fields of medicine, microbiology, and immunology.
Taught by: Johnson, Ross
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 101 The Nature of Nursing Practice
This course facilitates students' ability to conceptualize the experiences of individuals, families, communities, and populations living with health and illness. It emphasizes the integration of knowledge from other disciplines and of nursing science as the basis for practice. The course introduces the four core themes of the undergraduate nursing program: engagement, inquiry, judgment, and voice and examines how the themes are used to characterize the nature of nursing practice.
Taught by: Kutney-Lee; Brooks-Carthon; Wiltse Nicely
Course usually offered in fall term
Activity: Lecture
0.5 Course Units
Notes: 0.5 course units

NURS 102 Situating the Practice of Nursing
This course emphasizes not only how nursing is practiced, but also where it is practiced. The course further explores the four core themes of engagement, inquiry, judgment, and voice as it provides guided observational experiences in a wide variety of settings. These experiences help the student to discover what is not known and what is subsequently necessary to know. These experiences also explore the place of the natural and social sciences and the arts and humanities in nursing practice. This course also will highlight the relationships between and among members of the interprofessional team and families and patients. NURS 102 fosters development of the professional role and sets the stage for life-long learning.
Taught by: Kutney-Lee; Brooks-Carthon; Kaufman; Brewer
Course usually offered in spring term
Prerequisite: NURS 101
Activity: Lecture
0.5 Course Units
Notes: 0.5 course units

NURS 103 Psychological and Social Diversity in Health and Wellness
This course explores and integrates the intersection of psychological, cognitive, and social development with the lived experiences of individuals, families, and communities across the lifespan in order to conduct socially contextualized health assessments and health teaching. Extant theories will be critically analyzed and examined with respect to issues of health care access, health history, health promotion, and issues of equity and diversity from a life-course perspective. This knowledge will be synthesized and integrated with the development of the student's communication skills and interviewing processes necessary to develop socially attuned health history and teaching that promote psychological well being and healthy lifestyles. Simulated and observational experiences provide students with opportunities to acquire and apply knowledge necessary for conducting a comprehensive health history of an individual situated within a diverse community. They also provide opportunities to develop prioritized health teaching plans in partnership with that individual.
Taught by: Connolly; Lewis, L.
Course usually offered in fall term
Prerequisite: NURS 101
Activity: Lecture
1 Course Unit
Notes: Offered in Summer for Accelerated BSN Program
NURS 112 Nutrition: Science & Applications
An overview of the scientific foundations of nutrition. The focus is on
the functions, food sources and metabolism of carbohydrate, fat, protein,
vitamins and minerals. Effects of deficiency and excess are discussed and
dietary recommendations for disease prevention are emphasized.
Current issues and controversies are highlighted. Students will analyze
their own dietary intakes and develop plans for future actions.
Taught by: DeJonghe; Hayes
One-term course offered either term
Activity: Lecture
1 Course Unit
Notes: For Non-Nursing Majors

NURS 131 Human Anatomy and Physiology - Part A
The structural and functional organization of the human organism is
presented, along with the fundamentals of developmental anatomy and
embryology. Histologic and gross anatomical features of selected organ
systems are related to the physiologic and biochemical mechanisms
which enable the human body to maintain homeostasis in an ever-
changing environment.
Taught by: Scanga
Course usually offered in spring term
Prerequisites: NURS 61 and NURS 62 (or equivalent College Level
Chemistry and Biology)
Activity: Lecture
1.5 Course Unit
Notes: 4 h. lec. 2 h. lab. $100 lab fee

NURS 132 Human Anatomy and Physiology - Part B
The structural and functional organization of the human organism is
presented, along with the fundamentals of developmental anatomy and
embryology. Histologic and gross anatomical features of each organ
system are related to the physiologic and biochemical mechanisms
which enable the human body to maintain homeostasis in an ever-
changing environment. Basic concepts of pathophysiology are introduced
and applied to certain clinical disorders.
Taught by: Scanga
Course usually offered in fall term
Prerequisite: NURS 131
Activity: Lecture
1.5 Course Unit
Notes: 4 h. lec. 2 h. lab. $100 lab fee.

NURS 159 Pathways To Practice
Activity: Lecture
1 Course Unit

NURS 160 Physical Assessment
This is a laboratory course designed to help beginning nursing students
develop competence in the process of physical assessment. Students
engage in actual practice of physical assessment with fellow students
as their 'patient' subject. A blending of instructor demonstration and
supervision of physical examination practice sessions is used in the
learning laboratory setting. Students prepare via self-learning activities
with a variety of supplied resources (readings, videotapes, computer
programs) and have the opportunity to refine their skill through faculty-
supervised practice sessions. Procedural skills that correlate with the
presentations of physiologic system assessment are included.
Course usually offered summer term only
Prerequisite: Matriculation in the Accelerated BSN Nursing Program
Activity: Lecture
1 Course Unit
Notes: For Students in Accelerated BSN Nursing Program Only

NURS 163 Integrated Anatomy, Physiology, and Physical Assessment I
This is the first part of a two-semester course designed to provide
a comprehensive study of the structure and function of the human
body along with essential embryology and maturational physiology.
Histological and gross anatomical features of selected organ systems are
related to the physiologic and biochemical mechanisms that enable the
human body to maintain homeostasis. Within each system, deviations
from normal are considered to situate the student's understanding of
health problems and to foster an appreciation for the complexity of the
human organism. Integrated into each topic are the correlated physical
assessment parameters and related procedural skills. Laboratories
exercises and case study analysis provide a contextual base to acquire
and use domain-specific knowledge of concern to the practice of nursing.
Taught by: Scanga; Quigley
Course usually offered in spring term
Prerequisite: NURS 061; NURS 062; NURS 063; (or equivalent Science
Sequence Courses)
Activity: Lecture
2 Course Units
Notes: 2.0 course units

NURS 164 Integrated Human Anatomy, Physiology & Physical
Assessment II
This is the second part of a two semester course designed to provide
a comprehensive study of the structure and function of the human
body along with essential embryology and maturational physiology.
Histological and gross anatomical features of selected organ systems are
related to the physiologic and biochemical mechanisms that enable the
human body to maintain homeostasis. Within each system, deviations
from normal are considered to situate the student's understanding of
health problems and to foster an appreciation for the complexity of the
human organism. Integrated laboratories and case studies provide a
contextual base to acquire and use domain-specific knowledge that
includes physical assessment, and procedural.
Taught by: Scanga; Quigley
Course usually offered in fall term
Prerequisite: NURS 163
Activity: Lecture
2 Course Units
Notes: 2.0 course units

NURS 165 Integrated Pathophysiology, Pharmacology, and Therapeutics
Pathophysiologic concepts and processes are introduced with major
emphasis on commonly occurring acute and chronic illnesses and
their therapeutic interventions. Major classes of drugs that are
used to support organ function are explored. The physiological and
pathophysiologic rationale for each drug indication, mechanisms of
drug action, individualized dosing implications, and adverse drug events
will be explored for prototypical agents used in the selected cases.
The course will enhance the student's comprehension of the scientific
complexity of therapeutic interventions in various conditions and will
build upon the foundational sciences. Additionally the course will provide
the student with sufficient scientific knowledge and skills to prepare
administer and monitor drugs and therapies in a safe and effective
manner.
Taught by: Boullata
Course usually offered in spring term
Prerequisite: NURS 164 (or Equivalent)
Activity: Lecture
2 Course Units
Notes: 2.0 course units
NURS 215 Nursing of Women and Infants
This course emphasizes the child-bearing cycle, and the related issues of maternal and infant mortality and morbidity. It also explores women and infant’s health care and health promotion needs across the lifespan. It provides a global perspective, and uses the United Nations’ Pillars of Safe Motherhood and World Health Organization’s Millennium Development Goals as the vehicles to enable students to understand the interrelationships among issues of health and health promotion; social, economic, political and environmental contexts; and the care of women across the lifespan. Clinical experiences provide opportunities for students to understand the connections between the local and the global; to use their developing knowledge base to affect the health of women and their infants. Students will have opportunities for hospital-based care of child-bearing women and their infants. In addition, community-based experiences with individual women and with groups of women across the life cycle will be provided in order to enhance teaching, interviewing and assessment skills.
Taught by: Guidera; O’Hare; Hill-O’Neill
Course usually offered in spring term
Prerequisite: NURS 101; NURS 102; NURS 103; NURS 164 (Traditional) or NURS 106 (Accelerated)
Activity: Lecture
1.5 Course Unit

NURS 225 Pediatric Nursing
This course considers how nursing influences the health and healing capacities of infants, children, adolescents and their families. It focuses on the knowledge and skill acquisition needed to care for these patients at particular moments, across the continuum of care, and through transitions in an illness experience. It addresses pediatric nursing phenomena of concern and major final common pathways of pediatric illness from infancy through adolescence using a using a developmental and systems approach. Emphasis is placed on family-centered care through transitions in the illness and recovery phases. The course emphasizes clinical reasoning; family centered strategies for optimizing health and maintaining individuality; promoting optimal developmental, physiological, and psychological functioning; and enhancing strengths within the context of family. Clinical experiences at various children’s hospitals and simulation experiences provide sufficient opportunities for clinical reasoning, clinical care and knowledge integration.
Taught by: Hickerson
One-term course offered either term
Prerequisite: NURS 215
Corequisite: NURS 235
Activity: Lecture
1.5 Course Unit
Notes: Clinical 12 hours weekly and 2 hours Simulated Laboratory Weekly

NURS 230 Statistics for Research and Measurement
This course examines statistical methods used by scientists in the analysis of research data. The fundamental theorem for this course is the “square root law” (central limit theorem). Students become literate in statistical terminology and symbols and knowledgeable of assumptions for statistical tests. Fundamental statistics include basic theorems and principles, sample, population and data distributions, measures of central tendency, correlational techniques, and commonly used parametric and nonparametric statistical tests. Parameters for inferential and descriptive statistics are examined as the basis for explaining the results from research studies. Students apply chance models in estimating confidence intervals of percentages and means, and in hypothesis testing. This content is taught in the context of nursing research and measurement of nursing phenomena. Examination of research publications enable students to apply their knowledge to reading and understanding data analyses used in studies. Students evaluate tables and graphs as ways to summarize research findings. Course content prepares students to examine statistical and clinical significance of research findings.
Taught by: Kim
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 235 Psychiatric Nursing
This course examines how nursing influences the health and healing capacities of individuals and families experiencing severe psychiatric distress. It focuses on the knowledge and skill acquisition needed to care for these patients at particular moments, across the continuum of care, and through transitions in an illness experience. The course addresses nursing phenomena of concern related the meanings of an illness experience, the development of healing relationships with or within individuals, families, and groups, and on the advanced communication strategies needed to engage individual and families in mental health promotion strategies. It also provides the tools to enable students to construct effective treatment groups with patients; work groups with disciplinary and inter-professional colleagues; and to understand the healing dimensions of environments. Clinical and simulation experiences provide sufficient opportunities for clinical reasoning, clinical care and clinically situated knowledge integration.
One-term course offered either term
Prerequisite: NURS 215
Corequisite: NURS 225
Activity: Lecture
1.5 Course Unit
Notes: Clinical 12 hours weekly and 2 hours Simulated Laboratory Weekly
NURS 245 Nursing of Young and Middle Aged Adults
This course considers how nursing influences the health and healing capacities of young and middle aged adults who experience functional status impairments as a result of serious illness or injury. It focuses on the knowledge and skill acquisition needed to care for these patients at particular moments, across the continuum of care, and through transitions in an illness experience. It addresses nursing phenomena of concern, including risk factors for illness or injury, strategies to overcome barriers and support personal health resources, alleviate suffering and reduce the impact of illness or injury on the functioning of the person. Content and clinical experiences integrate developmental and role issues; policy, cultural and ethical considerations. Clinical experiences in acute care hospital units and simulation experiences provide opportunities for clinical reasoning, clinical care, and knowledge integration.
Taught by: Walsh-Brennan
One-term course offered either term
Prerequisite: NURS 215
Corequisite: NURS 255
Activity: Lecture
1.5 Course Unit
Notes: Clinical 12 hours weekly and 2 hours Simulated Laboratory Weekly

NURS 255 Nursing of Older Adults
This course considers how nursing influences the health and healing capacities of older adults. It focuses on the knowledge and skill acquisition needed to care for these patients at particular moments, across the continuum of care, and through transitions in an illness experience. It addresses nursing phenomena of concern including the unique set of principles and body of knowledge and skills necessary to the practice of nursing with older adults. Students are provided with the theoretical background necessary to understand health system issues affecting older adults. Students will attain the knowledge necessary to complete a comprehensive assessment of the older adult’s physical, functional, psychosocial, and cognitive capacities. Common problems associated with cardiovascular, respiratory, neurological, musculoskeletal, sensory, and genitourinary systems that affect older adults will be discussed. In addition, principles of continuity of care, rehabilitation, nutritional and pharmacodynamic changes, cultural diversity and ethics will be integrated throughout the course. Clinical experiences in acute care hospitals and simulation experiences provide sufficient opportunities for clinical reasoning, clinical care, and knowledge integration. Special emphasis is placed on transitional care for older adults across the health care continuum.
Taught by: Matura
One-term course offered either term
Prerequisite: NURS 215
Corequisite: NURS 245
Activity: Lecture
1.5 Course Unit
Notes: Clinical 12 hours weekly and 2 hours Simulated Laboratory Weekly

NURS 299 Independent Study in Nursing
An opportunity to develop and implement an individual plan of study under faculty guidance.
One-term course offered either term
Prerequisites: Permission of instructor and NURS 106
Activity: Independent Study
1 Course Unit

NURS 303 Contemporary Issues in Human Sexuality and Health
Course content emphasizes theories of sexual development and factors influencing sexual behavior within the continuum of health and illness. Common sexual practices of people are studied within the context of lifestyle and situational life crises. Concepts of normal sexual function and dysfunction are examined. Contemporary sexual issues are explored.
Taught by: Stevens
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 304 Contemporary Issues in Global Women's Health
This undergraduate elective course will provide an introduction to contemporary issues in global women's health and multiple theoretical perspectives related to global women's health. This course will examine and analyze various women's health issues across the globe within historical, social, cultural, economic, political and environmental contexts. This course will have particular emphasis on intensive analyses of gender equity and cultural sensitivity issues in providing appropriate and adequate care for women across the globe.
Taught by: Im
Course usually offered in spring term
Prerequisite: Nursing Students must have completed NURS 215
Activity: Lecture
1 Course Unit
Notes: Freshmen and Sophomores need Instructor Permission

NURS 305 Narrative Matters in Health and Illness Experiences
This course emphasizes the uses of narrative and memoir to consider major themes and events related to the experience of health and illness in the United States as well as the curative role, as either family member or health professional and crafting policy.
Taught by: Connolly, C
Activity: Seminar
1 Course Unit
Notes: Foundational Course for History, Health, and Humanities Minor

NURS 306 Opioids: From Receptors to Epidemics
Taught by: Compton; Schmidt
Prerequisites: Biology 101 or Biology 121 or with permission of instructors. For BSNs: N165 Integrated Pathophysiology, Pharmacology and Therapeutics
Activity: Lecture
1 Course Unit
Notes: This survey course reviews the neuropharmacology of opioids including central and peripheral sites of opioid actions. Opioid receptor pharmacology as well as cellular and molecular neuroadaptations to opioids are discussed in relation to addiction, physical dependence, tolerance, hyperalgesia and withdrawal. Genetic and pharmacogenomic effects on variation of opioid response are also presented. Opioid addiction and the actions of opioids on pain systems are reviewed with an emphasis on their pre-clinical and clinical expression. The effects of regulatory, pharmaceutical and criminal justice justice forces on opioid prescription in the US are considered vis-?-vis pain management and opioid addiction. Finally, the causes and consequences of the of the current "opioid epidemic" are reviewed, as well as federal, healthcare and community efforts to address it.

NURS 307 Contemporary Issues in Global Women's Health
This undergraduate elective course will provide an introduction to contemporary issues in global women's health and multiple theoretical perspectives related to global women's health. This course will examine and analyze various women's health issues across the globe within historical, social, cultural, economic, political and environmental contexts. This course will have particular emphasis on intensive analyses of gender equity and cultural sensitivity issues in providing appropriate and adequate care for women across the globe.
Taught by: Im
Course usually offered in spring term
Prerequisite: Nursing Students must have completed NURS 215
Activity: Lecture
1 Course Unit
Notes: Freshmen and Sophomores need Instructor Permission

NURS 308 Narrative Matters in Health and Illness Experiences
This course emphasizes the uses of narrative and memoir to consider major themes and events related to the experience of health and illness in the United States as well as the curative role, as either family member or health professional and crafting policy.
Taught by: Connolly, C
Activity: Seminar
1 Course Unit
Notes: Foundational Course for History, Health, and Humanities Minor

NURS 309 Opioids: From Receptors to Epidemics
Taught by: Compton; Schmidt
Prerequisites: Biology 101 or Biology 121 or with permission of instructors. For BSNs: N165 Integrated Pathophysiology, Pharmacology and Therapeutics
Activity: Lecture
1 Course Unit
Notes: This survey course reviews the neuropharmacology of opioids including central and peripheral sites of opioid actions. Opioid receptor pharmacology as well as cellular and molecular neuroadaptations to opioids are discussed in relation to addiction, physical dependence, tolerance, hyperalgesia and withdrawal. Genetic and pharmacogenomic effects on variation of opioid response are also presented. Opioid addiction and the actions of opioids on pain systems are reviewed with an emphasis on their pre-clinical and clinical expression. The effects of regulatory, pharmaceutical and criminal justice justice forces on opioid prescription in the US are considered vis-?-vis pain management and opioid addiction. Finally, the causes and consequences of the of the current "opioid epidemic" are reviewed, as well as federal, healthcare and community efforts to address it.
NURS 312 Nutritional Aspects of Disease
This course provides an advanced understanding of the role of nutrition in integrated biological systems. Students will develop a rigorous comprehension of major clinical disorders, including the underlying pathophysiology and conditions that are affected by nutrition and how optimization of nutritional variables may modulate these processes. A critical overview of the role of nutrition in disease prevention, management and treatment, and in health maintenance will be emphasized throughout the course.
Taught by: Hayes, M
Course usually offered in spring term
Prerequisite: NURS 112
Activity: Lecture
1 Course Unit

NURS 313 Obesity and Society
This course will examine obesity from scientific, cultural, psychological, and economic perspectives. The complex matrix of factors that contribute to obesity and established treatment options will be explored. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Compher
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 315 Sociocultural Influences on Health
This course is intended for students interested in U.S./Global Healthcare. It includes lectures, discussions, readings, and written assignments focused on various social, cultural, and economic factors that impact the health and illness perceptions and behaviors of various ethnic and minority groups. In particular, it focuses on how culture affects health and disease, and how health and disease affect culture. This course takes a critical approach to knowledge development by scrutinizing values, theories, assumptions, and practices cross culturally. It relies upon a range of interdisciplinary approaches to analyze how disease is diagnosed, treated, and experienced differently in various cultural contexts. At the same time, students will have the opportunity to examine and critique cultural assumptions and theories, the shifting nature of cultures, the situational use of cultural traditions, and the ethnocentrism of contemporary Western health care. Special attention is given to the influence of race, class, gender, religious, and spiritual ideas about health and illness.
Taught by: Wall
Course usually offered in spring term
Activity: Lecture
1 Course Unit
Notes: Foundational Course for Minor in Multicultural/Global Health Care

NURS 316 International Nutrition: Political Economy of World Hunger
A detailed consideration of the nature, consequences, and causes of hunger and undernutrition internationally. Approaches are explored to bringing about change, and to formulating and implementing policies and programs at international, national, and local levels, designed to alleviate hunger and under-nutrition.
Taught by: Chrzan
Course usually offered in spring term
Prerequisites: Junior-year or higher; at least one background course in nutrition, anthropology, sociology or economics
Activity: Lecture
1 Course Unit

NURS 318 Race, Gender, Class and the History of American Health Care
This multidisciplinary course surveys the history of American health care through the multiple perspectives of race, gender, and class, and grounds the discussions in contemporary health issues. It emphasizes the links between the past and present, using not only primary documents but materials from disciplines such as literature, art, sociology, and feminist studies that relate both closely and tangentially to the health professions and health care issues. Discussions will surround gender, class-based, ethnic, and racial ideas about the construction of disease, health and illness; the development of health care institutions; the interplay between religion and science; the experiences of patients and providers; and the response to disasters and epidemics. Skills for document analysis and critique are built into the course as is the contextual foundation for understanding the history of health care. This course satisfies both the Society & Social Structures and the Histories & Traditions sectors for the Nursing Class of 2012 and Beyond.
Taught by: Fairman
Course usually offered in fall term
Activity: Seminar
1 Course Unit
Notes: For Benjamin Franklin Scholars Nursing Honors Students.

NURS 319 Etiology and Treatment of Contemporary Chronic Diseases in America: Focus on Obesity and Cancer
This course will focus on two of the major public health problems in the United States—obesity and cancer. These diseases will be considered from a variety of perspectives: epidemiological, environmental, physiological and behavioral. In addition, the course will focus on the range of interventions being developed to treat as well as prevent both diseases.
Taught by: Glanz; Jacobs, L.; Sarwer
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 324 Children's Health in the United States, 1800-2000
This course explores the impact of historical ideas, events, and actors pertaining to the history of children’s health care in the United States. Emphasis is placed on tracing the origins and evolution of issues that have salience for twenty-first century children's health care policy and the delivery of care. This course satisfies the History & Traditions Sector for Nursing Class of 2012 and Beyond.
Taught by: Connolly
Course usually offered in fall term
Activity: Seminar
1 Course Unit
Notes: For Benjamin Franklin Scholars Nursing Honors Students

NURS 330 Theoretical Foundations of Health Care Ethics
The theoretical foundations of health care ethics including definitions of ethics, history of bioethics and nursing ethics, and the influence of religion, psychology of moral development and philosophy in the development of ethical theory. Nursing code of ethics, changing ideas in ethics, and discussion of the developing profession of nursing are included.
Taught by: Perlman; Ulrich
One-term course offered either term
Activity: Lecture
1 Course Unit
NURS 331 Forensic Mental Health
Forensic mental health is the interface between the law and mental health. This course examines the components of human behavior that bring people into a judicial setting. Content will cover: criminal personalities, forensic interview, and the role of forensic psychiatry. Domestic violence offenders, sex offenders, stalkers, gang members, and offenders who commit homicide will be discussed. Definitions and dynamics of criminal motherhood and the psychodynamics of violent juvenile offenders will be presented. Use of the internet by offenders will also be discussed. This course also offers a field experience in which student’s interview incarcerated individuals. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Brown, K.; Sabella
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 332 Forensic Science I
This course discusses the interface of law and science. Forensic science is the application of scientific principles in the legal arena. This course examines the contribution of forensic science to criminal and civil investigation. Crime scene analysis is accomplished via disciplines within forensic science. The role of the medical examiner, the structure and function of crime laboratories, death investigation and the role of health care personnel in forensic cases is discussed. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Cronin, G.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 333 Victimology
This course examines the wide range of victimization experiences from the perspective of the victim, their families and society. Crimes to be studied include workplace violence, corporate crime, robbery, burglary, assault, rape, stalking, domestic violence, homicide, suicide, elderly abuse and child sexual abuse and exploitation. The role of the medical examiner, health care providers and the FBI as they relate to victims of crime will be discussed. Emphasis will be given to exploring the elements of each crime and response patterns to victimizations. Services available to victims of crime will be discussed. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Cronin G
One-term course offered either term
Activity: Lecture
1 Course Unit

NURS 334 Public Policy and the Nation’s Health
This course examines health care and social policy from domestic and international perspectives. It is designed to engage undergraduate students in critical thinking about health policy issues as they affect our health care, employment, taxes, and social investments. The current national debate on health care reform is used as a frame of reference for examining the strengths and weaknesses of health care services in the U.S. from the perspectives of patients/families, health professionals, health services providers, insurers, employers, and public policy makers, and the pros and cons of a range of prescriptions for system improvement from across the political spectrum. About a third of the course focuses more specifically on global public health challenges and the policy strategies for reducing health disparities worldwide. Please note, the online version of this course has a synchronous component (live online class sessions). The day/time will be listed in the course register.
Taught by: Sochalski
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 335 Global Food Security for Ten Billion
This is an interdisciplinary course on the problems of food demand and consumption, production and supply in our increasingly globalized and urbanizing world. Special attention will be given to the intersections of current technologies of food production, current nutritional problems, environmental change and resource degradation, and the changing quality of human social life under globalization. Where and how will sufficient nutritious food be produced sustainably and how can the politics and economics of equitable distribution in such large urban populations be achieved?
Taught by: Spooner; Compher; Muecke; Chrzan
Course usually offered in spring term
Activity: Lecture
1 Course Unit
Notes: Cross Currents Course

NURS 343 Global Engagement Seminar Environmental Health Issues
Cross Listed with NURS 543 All students must apply through the Penn Global Seminar Webiste for permission to register for this course. Those who are accepted will receive a permit to register for this course.
Prerequisites: General college-level chemistry and biology knowledge (e.g. CHEM/BIOL 101, 102) to understand the science underlying environmental health topics or special permission
Activity: Seminar
1 Course Unit
Notes: This course will be a broad overview on current environmental health issues that contribute to significant global morbidity and mortality due to increased urbanization and growth in the economy. The course will cover basic principles of environmental epidemiology, toxicology, health effects of environmental exposures, risk assessment, as well as environmental policy and ethics. The class will have two portions. The first part of the class will be taught lectures, case studies, discussions on campus and a local field trip in the Philadelphia area. The second part of the course will involve a field trip to China during the early summer to help students gain a global perspective on environmental health concerns.
NURS 344 Etiology and Treatment of Contemporary Chronic Diseases in America: Focus on Obesity and Cancer
This course will focus on two of the major public health problems in the United States: obesity and cancer. These diseases will be considered from a variety of perspectives: epidemiological, environmental, physiological and behavioral. In addition, the course will focus on the range of interventions being developed to treat as well as prevent both diseases.
Taught by: Glanz; Sarwer; Jacobs, L.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 353 Health Comm Digital Age: Health Communication in the Digital Age
Activity: Lecture
1 Course Unit

NURS 354 Case Study - Addressing the Social Determinants of Health: Community Engagement Immersion
Prerequisite: Completion of sophomore year nursing requirements
Activity: Lecture
1 Course Unit
Notes: This case study offers students experiential learning to develop an in depth understanding of social determinants of health in vulnerable, underserved populations and to collaboratively design and refine existing health promotion programs based on the needs of the community site. Grounded on an approach that builds upon the strengths of communities, this course emphasizes the development of techniques to lead effective, collaborative, health-focused interventions for underserved populations. Students are required to draw on skills and knowledge obtained from previous classes related to social determinants of health and community engagement and will engage in specific creative, innovative community-based programs developed for populations across the life span. These culturally relevant programs, which have been shown to positively impact communities, create opportunities for students to address the social determinants of health, build engagement and leadership skills and increase program success and sustainability.

NURS 355 Case Study: Self-Care of Chronic Illness
Self-care is done by lay people to prevent or manage chronic illness. In this case study, we will discuss the history, definitions, predictors, and outcomes of self-care in various chronically ill populations. A focus of discussion will be in an in depth exploration of the factors that influence self-care. Understanding these factors will prepare nurses for their role in promoting self-care. Fieldwork experiences are designed to provide practical experience in engaging well individuals in preventing illness and helping chronically ill perform self-care.
Taught by: Riegel
Course usually offered in spring term
Prerequisite: NURS 215
Activity: Lecture
1 Course Unit
Notes: 2 hour seminar; 1 hour fieldwork / week

NURS 356 Case Study: Culture of Birth
This course will explore the cultural context of birth and the activities of women and professionals and/or attendants in meeting the health care needs of pregnant women. The history of caring for women at birth, international health care, cultural mores/societal values, place of birth, psychosocial factors, ethical decision-making and the role of technology are content areas that will be discussed.
Taught by: McCool
Course usually offered in spring term
Prerequisites: NURS 215, 225 or Permission of Instructor
Activity: Lecture
1 Course Unit

NURS 358 Case Study: Nurses and the Child Welfare System
Building on knowledge and skill acquired through undergraduate nursing courses, this case study offers nursing majors an in depth and interprofessional opportunity to study research, policy, and practice-based issues in children and families involved with the child welfare system. Special emphasis is placed on the role of the nurse in the child welfare system. Fieldwork experiences will enable students to gain practical experience regarding the needs of children and families with an emphasis on a consideration of how to achieve partnership and create alliances with parents and youngsters.
Taught by: Connolly
Course usually offered in fall term
Prerequisite: NURS 165; NURS 215
Activity: Lecture
1 Course Unit

NURS 359 Case Study: Quality Care Challenges in an Evolving Health Care Market
Quality care is an issue for consumers, providers, purchasers, and policy makers. This case study examines the multiple challenges that surround the quality of health care in the evolving United States health care marketplace. Through classroom discussion and special project experience, the student will become familiar with the concept of health care quality and approaches to the measurement and management of quality. Using Donabedian’s construct of structure, process and outcomes, strategies to improve quality while containing or reducing costs are reviewed, including the contributions of clinical practice guidelines. The evolving dominant structures for providing health care services, managed care and integrated delivery systems, and their approaches to quality management and reporting will be explored.
Taught by: Pinola, Sparrow
Course usually offered in spring term
Prerequisites: NURS 104, 106
Activity: Lecture
1 Course Unit

NURS 360 Case Study: Nursing Practice with HIV+ Patients
This course is directed at the need to increase nursing majors knowledge and clinical expertise in the care of persons with HIV/AIDS. Hands on clinical practice with nurses who are AIDS experts will be combined with seminars that provide epidemiologic, clinical assessment, infection control, symptom management, patient teaching, psychosocial, ethical, cultural, political, and policy information.
Taught by: Vincent
Course usually offered in fall term
Prerequisites: NURS 104, 106
Activity: Lecture
1 Course Unit
NURS 361 Case Study: Breast Feeding & Human Lactation
Human milk is recognized universally as the optimal diet for newborn infants. The health benefits of breastfeeding are so significant that a National Health Objective set forth by the Surgeon General of the United States for the year 2010 is to increase the proportion of mothers who breastfeed their babies in the postpartum period. Through classroom and clinical experiences, this course will provide an in depth examination of the anatomy and physiology of lactation, essential aspects of establishing and maintaining lactation, and the nurses' role in counseling the breastfeeding family. Emphasis will be placed on current research findings in the content area.

Taught by: Spatz
Course usually offered in fall term
Prerequisites: NURS 104, 106
Activity: Lecture
1 Course Unit

NURS 363 Case Study: Aggressive Behavior in Healthcare: Assessment Prevention and Treatment
The escalating incidence and prevalence of aggression in the health care setting requires that providers acquire a new set of pragmatic competencies for managing its complex sequelae. This course presents theoretical frameworks for understanding, predicting, preventing and responding to aggressive behaviors across the life span. Historical, bio-behavioral, social, and cultural explanations for aggression will be synthesized and analyzed within the context of multiple points of entry into the health care system across clinical settings. Personal self-awareness, debriefing, and stress management techniques exemplify techniques to prevent untoward consequences in providers. This course also uses exemplars and a range of experiential learning strategies, including skill development, situation analysis, concept mapping, unfolding case studies and cooperative learning, to examine the assessment, prevention, treatment, and response to aggressive behavior in patients and management of its consequences in self and others.

Taught by: Coleman
Course usually offered in spring term
Prerequisites: NURS 104, 106
Activity: Lecture
1 Course Unit

NURS 364 Case Study: Cancer
This elective case study offers students the opportunity to learn about the etiology, diagnosis, and management of cancer across the lifespan. Building on existing clinical knowledge and skills, students will explore cancer care from the perspectives of prevention, early detection, treatment, survivorship, and death. Observational clinical experiences and selected case studies will enhance students' understanding of patients' and families' cancer experience.

Taught by: Hollis
Course usually offered in spring term
Prerequisites: NURS 104, 106
Activity: Lecture
1 Course Unit

NURS 365 Case Study: Case Analysis in Clinical Nutrition
This course is designed for present and future nurse professionals who wish to increase their knowledge of nutrition and expertise and application of knowledge to achieve optimal health of clients and themselves. Principles of medical nutrition therapy in health care delivery are emphasized in periods of physiologic stress and metabolic alterations. Individual nutrient requirements are considered from pathophysiologic and iatrogenic influences on nutritional status. Nutritional considerations for disease states will be explored through epidemiological, prevalence, incidence, treatment and research data. Understanding application of medical nutrition therapy are included through case analysis and field experiences

Taught by: Dolan
Course usually offered in spring term
Prerequisite: NURS 065 or 112
Activity: Lecture
1 Course Unit

NURS 367 Case Study: Principles of Palliative Care
This course prepares students to collaborate effectively with an interdisciplinary team in assessing patients and families, and planning and evaluating palliative and end of life care for diverse populations with progressive illness in multiple health care settings. Course content and assignments focus on the nurse's role in addressing the complex assessment and responses to the psychosocial and spiritual concerns of patients and caregivers across the trajectory of advanced illness.

Taught by: Ersek
Course usually offered in fall term
Prerequisites: NURS 104, NURS 106
Activity: Lecture
1 Course Unit

NURS 368 Case Study: Home Health Care
This course examines the major aspects of home-based care across patients' life spans from acute to long term care. New trends, advances, and issues in home management of complex conditions, innovative delivery systems and legal, ethical and policy consideration will be explored.

Taught by: Doyle
Course usually offered in fall term
Prerequisites: NURS 104, NURS 106
Activity: Lecture
1 Course Unit

NURS 375 Nutrition Throughout The Life Cycle
Understanding and meeting nutritional needs from conception through adulthood will be addressed. Nutrition-related concerns at each stage of the lifecycle, including impact of lifestyle, education, economics and food behavior will be explored.

Taught by: Berman-Levine
Course offered fall; odd-numbered years
Prerequisites: NURS 54, or NURS 112, comparable nutrition course, or approved introductory course
Activity: Lecture
1 Course Unit
NURS 376 Issues in Nutrition, Exercise, and Fitness
An examination of the scientific basis for the relationship between nutrition, exercise and fitness. The principles of exercise science and their interaction with nutrition are explored in depth. The physiological and biochemical effects of training are examined in relation to sports performance and prevention of the chronic diseases prevalent in developed countries.
Taught by: Compher; Dougherty
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 377 Weight Management: Principles and Practices of Obesity Treatment
This course focuses on the principles and theories guiding the clinical care and treatment of people with obesity across the lifespan. We will discuss the effectiveness and evidence-base supporting a variety of obesity treatments: diet, physical activity, behavioral therapy, pharmacological, surgical, and combined approaches. Emphasis will be placed on the practical aspects of providing obesity education and counseling to assist individuals and families in attaining and maintaining a healthy weight.
Course usually offered in spring term
Prerequisite: NURS065 or NURS112
Activity: Seminar
1 Course Unit

NURS 380 Nursing in the Community
This course considers how nursing influences the health and healing capacities of both communities as a whole (populations) and of groups, families, and individuals living within particular communities locally and globally. It addresses the complexity of nursing practice using a public health paradigm. It requires students to draw from prior class and clinical knowledge and skills and apply this practice base to communities across care settings, ages, and cultures with different experiences of equity and access to care. It provides the tools needed to engage in collaborative community work and to give voice to the community’s strengths, needs, and goals. It also moves students from an individual and family focus to a population focus for health assessment and intervention. Students consider the science, policies, and resources that support public health, and community-based and community-oriented care. Clinical and simulated experiences in community settings provide sufficient opportunities for clinical reasoning, clinical care and knowledge integration in community settings. Students will have opportunities to care for patients and populations within selected communities.
Course usually offered in fall term
Prerequisite: NURS 225; NURS 235; NURS 245; NURS 255
Activity: Lecture
2 Course Units
Notes: Clinical 16 hours Weekly and 2 hours Simulated Laboratory Weekly Also Offered Summer Session (12 Weeks)

NURS 386 Nursing Honors Research Project
This course is an advanced seminar for research and scholarship to be taken by honors students in nursing. Enrollment is concurrent with implementation of the individual student’s honors project. Practical considerations in carrying out such a project, including scholarly approach and scientific integrity as well as scholarly writing and dissemination will be discussed and illustrated, using exemplars and student projects. The various phases of students’ projects will be used as launching points for discussions and to complement students’ work with their faculty supervisors. Paths and planning for careers in nursing and related disciplines and the idea of scholarship and research trajectories will be developed throughout the course.
Taught by: Kagan, McCauley, K
Course not offered every year
Prerequisites: NURS 260 or NURS 637, NURS 385H
Activity: Seminar
1 Course Unit
Notes: Enrollment in Nursing Undergraduate Honors Program Required

NURS 389 Research/Inquiry-Based Service Residency
This course is designed to facilitate students’ intellectual curiosity and independence in exploring the research process relevant to an area of interest. Students expand their research knowledge base provided in NURS 230 and NURS 547 through a structured individualized faculty mentored experience based on specific learning objectives. Students identify a faculty advisor and, in collaboration with the advisor, define learning objectives to guide a plan of study. All research or inquiry residencies are under the guidance of a faculty member in the School of Nursing, but students may also interact with affiliated investigators and clinicians who contribute to and enrich the course. The residency offers students opportunities to experience at any level systematic methods for research, or service-based clinical inquiry or quality improvement. This mentored residency can be fulfilled by one of the following options:
* Research-based practicum in basic science, clinical research, nursing history, healthcare policy, ethics, or informatics. * Inquiry-based Service practicum such as conducting quality improvement procedures or program evaluations in an affiliated healthcare institution. * Taking one of the University’s Academically Based Community Service (ABCS) courses with prior approval by the Steering Committee. * Individualized study abroad experience with prior approval by the Steering Committee.
Taught by: Curley, Leary, M.
One-term course offered either term
Prerequisite: NURS 547
Activity: Lecture
0.5 Course Units
Notes: 0.5 course units
NURS 390 Leadership in the Complex Healthcare System
This two-part course provides the didactic and clinical experiences in increasingly complex nursing care situations and environments which facilitate the students’ transition to independent practice. In the lecture component, the focus is on the integration of knowledge and skill for nursing practice and develops the ability of students to see nursing practice as part of a complex system. It examines systems thinking and complexity, development of a leadership role and skills, inter-professional communication and teamwork, and leading change in healthcare organizations. This course also examines the nurse’s role in improvement science and patient care delivery, focusing on quality improvement processes, patient safety, nurse sensitive process and outcome metrics with micro-systems. This course also allows students to develop the capacity for clinical expertise, leadership, and for translating the science of the profession into practice. Students also are assigned to a seminar component that is correlated with their selected site for the specialty clinical practicum. This aspect of the course allows the student to develop additional expertise in a specialty area of practice and to develop competences specific to that population of patients. These seminar components are adult health and illness; adult critical care, obstetrics/labor & delivery, psychiatric/mental health, and pediatrics. Advanced simulation experiences and extensive clinical practice in an area of the students’ choice provide multiple opportunities to synthesize the multidimensional aspects of nursing, and provide the environment which facilitates transition to professional nursing practice. Students select from a variety of settings in which to refine their practice skills. Principles of leadership, accountability and change will be applied to clinical practice as the student begins to operationalize the professional nursing role. Emphasis is placed on the nurse as a knowledgeable provider of health care who is both a change agent and advocate.
One-term course offered either term
Prerequisite: NURS 380
Activity: Lecture
3 Course Units
Notes: Clinical 16 hours Weekly and 2 hours Simulated Laboratory Weekly

NURS 400 Advances in Health Systems Research and Analysis
Capstone Course for NURS/WH Joint Degree Students.
Taught by: Sochalski; McHugh, M
Course offered spring; odd-numbered years
Activity: Seminar
1 Course Unit
Notes: by Permission Only

NURS 500 Introduction to Principles and Methods of Epidemiology
This course provides an introduction to epidemiologic methods and overview of the role of epidemiology in studies of disease etiology and in the planning, delivery and evaluation of health services. The population-based approach to the collection and analysis of health data will be emphasized throughout the course. Through textbook reading, problems sets, class discussion and review of the recent literature, students will become acquainted with the basic designs of epidemiologic studies in theory and in practice. Students will develop the basic skills necessary to use epidemiologic knowledge and methods as the basis for scientific public health practice. Please note, the online version of this course has a synchronous component (live online class sessions). The day/time will be listed in the course register.
Taught by: Schmitz
Course usually offered in spring term
Prerequisite: Elementary statistics
Activity: Lecture
1 Course Unit

NURS 503 Contemporary Issues in Human Sexuality and Health
Emphasizes the theories of sexual development and sexual behavior within the continuum of health and disease. Common sexual practices of people are studied in relation to life-style and/or situational life crisis. Contemporary issues in sexuality and health will be examined. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Guidera; Villari
Course usually offered in spring term
Activity: Lecture
1 Course Unit
Notes: Junior and Senior undergraduates. Open to all graduate students

NURS 509 The Medically Fragile Child
This course is designed to assist prospective practitioners develop advanced skills in identifying the needs and interventions for medically fragile neonates, children and their families.
Taught by: Deatrick
Course usually offered summer term only
Activity: Lecture
1 Course Unit
Notes: Summer Session II

NURS 511 Loss, Grief and Bereavement
Loss, grief and bereavement are pervasive aspects of the human experience. The content of this course provides a basis both for personal development and professional growth. Through a series of seminars, key issues surrounding loss, death, dying, grief and bereavement will be examined.
Taught by: Sabella
Course usually offered summer term only
Activity: Lecture
1 Course Unit
Notes: Summer Session II

NURS 513 Obesity and Society
This course will examine obesity from scientific, cultural, psychological, and economic perspectives. The complex matrix of factors that contribute to obesity and established treatment options will be explored. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Compher
Course usually offered in fall term
Prerequisite: Undegraduates by permission of instructor
Activity: Lecture
1 Course Unit
NURS 515 Sociocultural Influences on Health
This course is intended for students interested in U.S/Global Healthcare. It includes lectures, discussions, readings, and written assignments focused on various social, cultural, and economic factors that impact the health and illness perceptions and behaviors of various ethnic and minority groups. In particular, it focuses on how culture affects health and disease, and how health and disease affect culture. This course takes a critical approach to knowledge development by scrutinizing values, theories, assumptions, and practices across culturally. It relies upon a range of interdisciplinary approaches to analyze how disease is diagnosed, treated, and experienced differently in various cultural contexts. At the same time, students will have the opportunity to examine and critique cultural assumptions and theories, the shifting nature of cultures, the situational use of cultural traditions, and the ethnocentrism of contemporary Western health care. Special attention is given to the influence of race, class, gender, religious, and spiritual ideas about health and illness.
Taught by: Wall
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 516 International Nutrition: Political Economy of World Hunger
A detailed consideration of the nature, consequences, and causes of hunger and undernutrition internationally. Approaches are explored to bringing about change, and to formulating and implementing policies and programs at international, national, and local levels, designed to alleviate hunger and undernutrition. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Chrzan
Course usually offered in spring term
Activity: Lecture
1 Course Unit
Notes: Graduate Students Only

NURS 517 Advanced Nutrition and Metabolism
Essentials of nutritional biochemistry from the molecular level to the level of the whole human organism. Nutrient functions and inter-relationships are explored with attention to the association between nutrients and disease risk. Topics include energy metabolism and regulation of fat storage, new functions of vitamins and minerals, gene nutrient interactions and current research topics.
Taught by: Compher
Course usually offered in spring term
Prerequisite: Nurs 54 or Nurs 112 (Students with extensive background in life sciences by permission of faculty)
Activity: Lecture
1 Course Unit

NURS 518 Nursing and the Gendering of Health Care in the United States and Internationally, 1860-2000
This course examines changing ideas about the nature of health and illness; changing forms of health care delivery; changing experiences of women as providers and patients; changing role expectations and realities for nurses; changing midwifery practice; and changing segmentation of the health care labor market by gender, class and race. It takes a gender perspective on all topics considered in the course. A comparative approach is used as national and international literature is considered. This focus is presented as one way of understanding the complex interrelationships among gender, class, and race in health care systems of the United States and countries abroad.
Taught by: Connolly
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 519 Etiology and Treatment of Contemporary Chronic Diseases in America: Focus on Obesity and Cancer
This course will focus on two of the major public health problems in the United States-obesity and cancer. These diseases will be considered from a variety of perspectives: epidemiological, environmental, physiological and behavioral. In addition, the course will focus on the range of interventions being developed to treat as well as prevent both diseases.
Taught by: Glanz; Jacobs, L.; Sarwer
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 521 Current Topics in Nutrition
The objective of the course is to integrate the nutrition knowledge obtained from previous course work in nutrition and provide the student the opportunity to explore, analyze and formulate implications of the research and related literature on a self-selected topic under the guidance of the faculty coordinator. Current topics and controversies in nutrition will be discussed weekly. Readings will be assigned in coordination with each discussion topic and students will be required to seek out other sources of information to add to the class discussion. Topics will change from year to year to reflect the most recent interests and issues.
Taught by: Compher
Course not offered every year
Activity: Seminar
0.5 Course Units

NURS 523 Advanced Nutrition: Molecular Basis of Nutrition
Prerequisite: NURS 065 or 112
Activity: Lecture
1 Course Unit
Notes: Essentials of nutritional biochemistry of macronutrient (protein, carbohydrate,lipid) metabolism from the molecular level to the level of the whole human organism. Linkages between energy and nitrogen balance and states of health and disease are examined. Topics include energy metabolic pathways, nutrient transportation, nutrient catabolism, nutrient anabolism, body composition, and biomarkers.
NURS 524 Advanced Human Nutrition and Micronutrient Metabolism
Prerequisite: NURS 605 or NURS 112 or Special Permission
Activity: Lecture
1 Course Unit
Notes: Essentials of vitamin and mineral digestion, absorption, metabolism, and function in humans during states of health and disease are examined. Linkages between key vitamins and their function in biological systems, such as bone health, energy metabolism, hematopoetic function, and immune function, are explored in depth. Topics include pertinent research methodologies, biomarkers, deficiency and toxicity states, and requirements across the life cycle.

NURS 525 Ethical Aspects of Health and Technology
Interdisciplinary approach to the study of the interface between ethics and law in the provision of health and illness care. This course draws upon the disciplines of philosophy, law, biomedical engineering and nursing in examining such concepts as the use/nonuse of biomedical technology, who and how one decides what shall be done for a given “patient,” and the “rights” and responsibilities (accountability) of all persons involved in health/illness care decisions. The interplay of ethical theory, personal value systems, law and technology will be stressed throughout. Lectures, seminars and case studies will be used. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Ulrich
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 526 Child and Adolescent Mental Health
This course is designed to prepare advanced practice registered nurses to address mental health concerns of children, adolescents and their families from a bio-psycho-socio-cultural perspective. Prevention, assessment, and treatment of psychiatric disorders affecting children and adolescents in a variety of settings will be presented in the context of mental health, school and primary health care delivery systems. Students will explore both pharmacologic and nonpharmacologic treatment strategies, as well as methods to identify and implement evidence-based practice in child and adolescent populations. Mental health policy, as well as the unique needs of special populations (e.g., youth in the juvenile justice system) will also be discussed.
Taught by: Brawner
Course usually offered in fall term
Prerequisite: Matriculation in a MSN Program or permission of instructors
Activity: Lecture
1 Course Unit
Notes: Priority will be given to Psychiatric Mental Health NP students

NURS 531 Forensic Mental Health
Forensic mental health is the interface between the law and mental health. This course examines the components of human behavior that bring people into a judicial setting. Content will cover: criminal personalities, forensic interview, and the role of forensic psychiatry. Domestic violence offenders, sex offenders, stalkers, gang members, and offenders who commit homicide will be discussed. Definitions and dynamics of criminal motherhood and the psychodynamics of violent juvenile offenders will be presented. Use of the internet by offenders will also be discussed. This course also offers a field experience in which student’s interview incarcerated individuals. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Brown, K.
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 532 Cognitive Behavior Strategies in Health Care
Cognitive therapy will be studied as it has been adapted to treat a broad spectrum of clinical disorders including depression, anxiety, phobias, substance, obesity, marital problems, sexual dysfunction, and psychosomatic disorders. Students will have an opportunity to study and observe the crucial link between thoughts and emotions and the sense of competency patients can develop through self-help techniques. The course utilizes didactic, experiential and observational techniques.
Taught by: Kuehlwein
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 533 Victimology
This course examines the wide range of victimization experiences from the perspective of the victim, their families and society. Crimes to be studied include workplace violence, corporate crime, robbery, burglary, assault, rape, stalking, domestic violence, homicide, suicide, elderly abuse and child sexual abuse and exploitation. The role of the medical examiner, health care providers and the FBI as they relate to victims of crime will be discussed. Emphasis will be given to exploring the elements of each crime and response patterns to victimizations. Services available to victims of crime will be discussed. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Cronin, G.
One-term course offered either term
Activity: Lecture
1 Course Unit
Notes: Offered Fall, Spring Summer I

NURS 534 Forensic Science I
This course discusses the interface of law and science. Forensic science is the application of scientific principles in the legal arena. This course examines the contribution of forensic science to criminal and civil investigation. Crime scene analysis is accomplished via disciplines within forensic science. The role of the medical examiner, the structure and function of crime laboratories, death investigation and the role of health care personnel in forensic cases is discussed. As of Spring 2016, students in the College of Arts and Sciences are not permitted to enroll in this course.
Taught by: Cronin, G.
Course usually offered in spring term
Activity: Lecture
1 Course Unit
NURS 535 Comparing Health Care Systems in an Intercultural Context: Study Abroad
This course offers students an opportunity to: 1) expand their knowledge base in health care systems; 2) develop intercultural competency skills and 3) shape a conceptual framework for improving the quality of health care for the individual, the family, the community and society at large. Emphasizes the relational, contextual nature of health care and the inseparability of the notions of the health of individuals and the health of family, society, and culture. Includes field experience.
Taught by: Kagan; Stringer; Muecke
Course usually offered in spring term
Prerequisite: Permission of instructor
Activity: Lecture
1 Course Unit
Notes: Seminar held in Spring, study abroad field experience held intra

NURS 540 Current Issues In Health and Social Policy
Analysis of key contemporary issues in health and social policy that will provide students with a deeper understanding of the design and structure of the U.S. health care system, the policy initiatives that have shaped it, and the roles of the government, the private sector, and consumers and advocacy groups in setting the policy agenda. Seminars will examine the origins of each issue, the policies enacted and their effects, both intended and unintended, and will propose and debate the merits of alternative policy solutions. The role of health services and policy research in informing the policy debate and directions will be highlighted. Please note, the online version of this course has a synchronous component (live online class sessions). The day/time will be listed in the course register. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Sochalski; McHugh, M
Course usually offered summer term only
Activity: Lecture
1 Course Unit
Notes: Registration By Permission of Instructor

NURS 543 Global Engagement Seminar Environmental Health Issues
Cross Listed with NURS 343
Prerequisites: General college-level chemistry and biology knowledge (e.g. CHEM/ BIOL 101, 102) to understand the science underlying environmental health topics or special permission
Activity: Seminar
1 Course Unit
Notes: This course will be a broad overview on current environmental health issues that contribute to significant global morbidity and mortality due to increased urbanization and growth in the economy. The course will cover basic principles of environmental epidemiology, toxicology, health effects of environmental exposures, risk assessment, as well as environmental policy and ethics. The class will have two portions. The first part of the class will be taught lectures, case studies, discussions on campus and a local field trip in the Philadelphia area. The second part of the course will involve a field trip to China during the early summer to help students gain a global perspective on environmental health concerns.

NURS 544 Etiology and Treatment of Contemporary Chronic Diseases in America: Focus on Obesity and Cancer
This course will focus on two of the major public health problems in the United States - obesity and cancer. These diseases will be considered from a variety of perspectives: epidemiological, environmental, physiological and behavioral. In addition, the course will focus on the range of interventions being developed to treat as well as prevent both diseases.
Taught by: Glanz; Sarwer; Jacobs, L.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 545 Maternal and Infant Care in the Americas
This clinical elective will provide an intensive historical, sociopolitical, and cultural perspective of health and health care delivery in the Americas with a special emphasis on Latin America and the Caribbean. Classroom, direct clinical care and field experiences are designed to provide students with a broad view of the history and culture system of the country of focus. The delivery of health care to women and children will be explored from a sociopolitical, cultural and historical context. Service learning experiences are an integral component of this course. The course includes 5 seminars on campus and 10-14 days on site in the country of focus. The country of focus may vary each semester.
Taught by: Guidera; Durain
Course usually offered in spring term
Activity: Lecture
1 Course Unit
Notes: Registration By Permission of Instructor

NURS 547 Scientific Inquiry for Evidence-based Practice
This course is designed to advance students' understanding of the research process, methods of scientific inquiry, and analytical techniques. Students acquire knowledge of systematic approaches used by scientists to design and conduct studies. Course content prepares students to appraise quantitative and qualitative research, and evaluate the scientific merit and clinical significance of research for translation into practice. Evidence-based guidelines are examined and rated for strength of evidence and expert consensus using evidence grading systems and defined criteria. Students engage in variety of creative learning experiences to facilitate appreciative inquiry, clinical reasoning, and evidence-based practice. Quality improvement, comparative effectiveness analyses, information science, and electronic health systems technology demonstrate the capacity for measurement and surveillance of nursing-sensitive and other outcomes used to evaluate quality nursing care and test interventions. Ethical, legal and health policy implications for research are explored. This course serves as the basis for scientific inquiry about human experiences to address important problems that require solutions and to expand the research and the evidence base for professional nursing practice.
Taught by: Spatz; Kutney-Lee; Polomano
One-term course offered either term
Prerequisite: NURS 230
Activity: Lecture
1 Course Unit
NURS 548 Negotiations in Healthcare
This course examines the process that leads to change in healthcare settings and situations. Students will develop skills that lead to effective negotiations in interpersonal and organizational settings. Included in the discussion are: concepts of organizational structure and power, negotiating in difficult situations, and the role of the healthcare professional in negotiation and change. The course also examines techniques leading to successful implementation of negotiated change in the practice setting. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Burke, K.;
Course usually offered in fall term
Prerequisite: Undergraduates must have permission of instructor
Activity: Lecture
1 Course Unit

NURS 550 Home Health Care Concepts: Mgmt. & Delivery of Community-Based Care
This course examines the major aspects of home-based care across patients’ life spans from acute to long term care. New trends, advances, and issues in home management of complex conditions, innovative delivery systems and legal, ethical and policy consideration will be explored.
Taught by: Doyle
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 551 Applied Health Informatics
Catalogue Description: This course is designed to address issues related to the impact of information technology on health care practitioners and consumers of all ages. Students will learn about and gain experience with practical applications of information technology (Access, handheld devices, telehealth, Internet resources) that improve the quality of health care communication and delivery and facilitate health care research. Class projects include working with clinical databases and evidence-based information sources.
Taught by: Bowles
Course offered fall; even-numbered years
Prerequisites: Experience in using the Internet to retrieve information. Basic knowledge of Microsof Access is expected.
Activity: Lecture
1 Course Unit

NURS 552 Health Care and Social Policy
This course is an area study or survey of social policy issues in contemporary health care. Topics include social contexts of health care and health policy; the organization and financing of health services; the health professions; health and illness over the life cycle; achieving equitable access to health services; the interface between health and social services. Health problems of national significance will be addressed including infant mortality, teenage pregnancy, AIDS, the chronically mentally ill and homeless, health impaired elderly.
Taught by: Aiken
Course usually offered in fall term
Activity: Lecture
0.5 Course Units

NURS 553 Innovation & Applied Technology in Health Care II
Course usually offered in spring term
Activity: Lecture
0.5 Course Units

NURS 555 Women and Incarceration
This elective course will afford students the opportunity to develop and implement health education workshops for incarcerated women in the Philadelphia Department of Prisons. Evidence suggests improved self-regulation may enhance other therapeutic methodologies consequently reducing the frequency of reoffending. Students will explore the social and legal trends driving the incarceration of urban men and the resulting health and wellbeing needs of this population. Students will have direct contact with the jail system, its staff, and male inmates.
Taught by: Brown, K.
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 556 Men and Incarceration
Students in this course will develop and implement health and wellbeing education programming for incarcerated men in the Philadelphia Department of Prisons. Evidence suggests improved self-regulation may enhance other therapeutic methodologies consequently reducing the frequency of reoffending. Students will explore the social and legal trends driving the incarceration of urban men and the resulting health and wellbeing needs of this population. Students will have direct contact with the jail system, its staff, and male inmates.
Taught by: Cronin
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: Enrollment by Permission of Instructor

NURS 557 Principles of Palliative Care
This course examines national and global perspectives and clinical issues in the delivery of palliative care with diverse populations in multiple health care settings. Students focus on the care of persons with life-threatening, progressive illness, emphasizing respect for patients’ and families’ beliefs, values, and choices. Students also explore psychosocial and spiritual dimensions of palliative care. Historical, sociocultural, economic, legal, and ethical trends in palliative care are discussed. Factors affecting health care systems and societal attitudes are considered in evaluating the delivery of care during advanced illness and at the end of life. Students engage in the critical analysis of literature, research, and observational experiences concerning biopsychosocial needs of patients and families. Students acquire competencies in patient/family assessment, communication, decision-making, and interdisciplinary collaboration in palliative care. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Ersek
Course usually offered in fall term
Prerequisite: Undergraduate Students Need Permission
Activity: Lecture
1 Course Unit
Notes: for Graduate Students and Junior and Senior Undergraduate Nursing Students (with Course Faculty Permission)

NURS 559 Health Comm Digital Age: Health Communication in the Digital Age
Activity: Lecture
1 Course Unit
NURS 567 An Evidence-based Approach to Managing Symptoms in Advanced Illness
This course uses an evidence-based approach towards systematic assessment and management of common symptoms and symptom clusters accompanying progressive, life-limiting illnesses within a framework of nationally recognized standards and guidelines for palliative and end-of-life care. Students are prepared to apply principles of palliative management to diverse patient populations across clinical settings including acute, primary, long-term, and community care. Refer to course syllabus or email course faculty for respective requirements.
Taught by: Leary; Nguyen
Course usually offered in fall term
Prerequisite: Undergrads Need Permission
Activity: Lecture
1 Course Unit

NURS 570 Introduction to Public Health
This course will provide a foundational overview of the field of public health and grounding in the public health paradigm. Content will include the history of public health, an introduction to the basic public health sciences including behavioral and social sciences, biostatistics, epidemiology, environmental public health, policy and management and prevention of chronic and infectious diseases and injuries, future directions for public health and an introduction to issues in international health, ethics, context analysis (specifically the notion of urban health), health promotion and disease prevention paradigms.
Taught by: Buttenheim; Nguyen
Course usually offered in spring term
Prerequisite: Undergrads Need Permission
Activity: Lecture
1 Course Unit

NURS 573 Innovation in Health: Foundations of Design Thinking
Innovation, defined as a hypothesis-driven, testable, and disciplined strategy, is important to improve health & healthcare. Employing new ways of thinking, such as with design thinking, will help open up possibilities of ways to improve health & the process of healthcare. Incorporating current & emerging social & digital technologies such as mobile apps, wearables, remote sensing, and 3D printing, affords new opportunities for innovation. This course provides foundational content & a disciplined approach to innovation as it applies to health & healthcare. A flipped classroom approach with the in-class component focusing on group learning through design thinking activities. The course is open to undergraduate nursing students as a case study & upper-level undergraduates and graduate students from across the Penn campus. The course provides a theoretical foundation in design thinking & may provide an overview of innovation technology & digital strategies as well as social & process change strategies. To enhance the didactic component, students will actively participate in a design case study. Students will be matched by interest and skill level with teams & will work with community-based organizations, healthcare providers and/or innovation partners. Student teams will meet their partners to identify & refine a health or healthcare problem to tackle. Students will work throughout the semester to create an innovative solution that will be pitched to their community-based organization, healthcare provider, and/or innovation partner at the end of the semester.
Taught by: Leary
Course usually offered in fall term
Prerequisites: Completed freshman & sophomore level courses or graduate student status.
Activity: Lecture
1 Course Unit

NURS 575 Health, Sustain & Design: Health, Sustainability & Built Environment Design
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: This foundational course is for students in nursing, public health, medicine, environmental policy, planning and design to be prepared for increasingly prevalent intersectoral professional work. Students will learn the social determinants of health through the design of place, including housing, schools, healthcare and the workplace. They will learn about design and planning theorey that intersects with diseases, sustainability and climate action's impact on health. Through case studies seminars and tours, students will be prepared to articulate the essential role of design and development processes to increase health professionals' effectiveness. Rather than just combating diseases, health promotion through placemaking can be essential for healthy communities.

NURS 577 Advanced Practice Issues for Palliative Care Nurses
This course provides an in-depth examination of 1) key practice, policy, and ethical issues affecting the delivery of palliative care and 2) the responsibilities of advanced practice nurses (APRN) providing care to patients with progressive, life-limiting illness and their families. Learning experiences will focus on conducting patient/family conferences; examining selected ethical issues in palliative care; analyzing organizational, economic and health policy issues that affect the delivery of hospice and palliative care; exploring current and emerging models of palliative care delivery; and creating approaches to enhancing continuity of palliative care across settings. Students will choose assignments to meet their professional goals.
Taught by: Ersek; Meghan; Polomano
Course usually offered summer term only
Prerequisite: NURS 557
Activity: Lecture
1 Course Unit

NURS 575 Health, Sustain & Design: Health, Sustainability & Built Environment Design
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: This foundational course is for students in nursing, public health, medicine, environmental policy, planning and design to be prepared for increasingly prevalent intersectoral professional work. Students will learn the social determinants of health through the design of place, including housing, schools, healthcare and the workplace. They will learn about design and planning theorey that intersects with diseases, sustainability and climate action's impact on health. Through case studies seminars and tours, students will be prepared to articulate the essential role of design and development processes to increase health professionals' effectiveness. Rather than just combating diseases, health promotion through placemaking can be essential for healthy communities.

NURS 578 Pharmacology of Anesthesia and Accessory Drugs I
This course explores the various routes of anesthetic administration addressing the potential benefits and risk of each. Special emphasis is placed on specific anesthetic agents and their appropriate use. The responses and common complications associated with these agents are discussed.
Taught by: Magro; Lynn
Course usually offered in fall term
Prerequisite: NURS 617
Activity: Lecture
1 Course Unit
NURS 587 Advanced Leadership Skills in Community Health
Grounded in a social justice perspective, this course aims to provide the student with a foundational overview of the field of community health and leadership skills in public health advocacy. The course encourages critical thinking about health outcomes framed by the broad context of the political and social environment. This course analyzes the range of roles and functions carried out by leaders in healthcare advocacy for marginalized communities; integrates knowledge of health policy and the key influence of government and financing on health outcomes; explores community-based participatory research and interventions as tools for change; and discuss ways to develop respectful partnerships with community organizations. An assets-based approach that draws upon the strengths of communities and their leaders provides a foundation for community-engagement skill building. The course emphasizes the development of skills and techniques to lead effective, collaborative, health-focused interventions for disenfranchised groups, including residents of urban neighborhoods.
Taught by: Margo; Klusaritz; Lipman
Course usually offered in spring term
Prerequisite: Enrollment in a Masters or Doctoral program
Activity: Lecture
1 Course Unit
Notes: Undergraduates with permission of the instructor

NURS 588 The Politics of Women's Health Care
This course will utilize a multidisciplinary approach to address the field of women's health care. The constructs of women's health care will be examined from a clinical, as well as sociological, anthropological and political point of view. Topics will reflect the historical movement of women's health care from an an obstetrical/gynecological view to one that encompasses the entire life span and life needs of women. The emphasis of the course will be to undertake a critical exploration of the diversity diversity of women's health care needs and the past and current approaches to this care. Issues will be addressed from both a national and global perspective, with a particular focus on the relationship between women's equality/inequality status and state of health. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: McCool; Durain; Lewis, L.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 600 Principles and Practice of Transformative Nursing Education
This course is designed to provide expert nurses with a theoretical foundation to promote excellence in teaching in both faculty and professional development roles. Principles of adult learning theory, learning styles and preferences are explored with a focus on impact for educational design. Students will review various learning domains and approaches for curriculum development including writing measureable learning objectives. Content also includes an examination of numerous didactic teaching strategies, general tactics for the use of simulation, approaches for inter-professional collaboration, and methods for evaluating learner competence.
Taught by: Keim; Wildenberg
Course usually offered in fall term
Prerequisites: Baccalaureate in Nursing plus a Master's Degree in Nursing or in a Health Related Area. Current Master or Doctoral Students with permission of the Program Director and the Course Director.
Activity: Lecture
1 Course Unit

NURS 601 Teaching Nursing in an Academic Environment
This course provides students with the fundamental knowledge and skills in preparation for teaching in a faculty role in an academic environment. Specific focus will be placed on program design, development of teaching skills in the didactic, simulation, clinical, and online learning environments, management of didactic and clinical course offerings including effective use of learning management systems, and methods for evaluation of student performance including various test constructions and paper grading rubrics. This course also reviews approaches and resources for working with students who have learning challenges or performance issues.
Taught by: Keim; Wildenberg
Course usually offered in spring term
Prerequisite: NURS 600
Activity: Lecture
1 Course Unit

NURS 604 Chronic Illness in the Community: Lifespan Approach
This course focuses on theory and research from the behavioral and nursing sciences on the psychological and social consequences of ongoing illness. In addition, the health policy issues engendered by these problems will be addressed.
Taught by: Shaughnessy, Buzby, Murphy
Course usually offered in spring term
Prerequisite: Primary Care Majors or instructor permission
Activity: Lecture
1 Course Unit

NURS 605 Biochemical and Physiological Aspects of Metabolism and Human Disease
Selected aspects of genetics, biochemistry, physiology and pharmacology are presented and applied to nursing care. Embryonic, histologic, and gross anatomical features of certain organ systems are functionally related to biochemical and physiological mechanisms essential for the maintenance of a stable internal environment. Special emphasis is placed upon integrating functions of the nervous and endocrine systems. Certain deviations from normal metabolism, structure and function are detailed.
Taught by: Lafferty; Malseed, Z.; Tkacs
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: Summer I

NURS 607 Advanced Physiology and Pathophysiology
This course will integrate advanced physiology with pathophysiology and clinical implications across the lifespan for advanced nursing practice. Organ systems function and dysfunction from the level of the cell through integrated organ levels will be presented, and the genetic basis of disease will be discussed. Recent scientific advances will be discussed with application to new approaches to disease and symptom management. The interrelationships between basic physiology, clinical pathophysiology, and genetics are emphasized through lecture and case studies.
Taught by: Libonati
Course usually offered in fall term
Prerequisites: Completion of undergraduate courses that include Biochemistry, Nutrition, Anatomy and Physiology or permission of the instructor.
Activity: Lecture
1 Course Unit
NURS 608 Advanced Pharmacology and Therapeutics for Nursing Practice
Advanced principles of clinical pharmacology and therapeutics are applied to the nursing care of individuals across the life-stage spectrum. It focuses on the content and knowledge employed by the advanced practice registered nurse in the management of various conditions and disease states. The course builds on the pharmacology knowledge base acquired in the baccalaureate nursing program. The advanced pharmacology and therapeutics of several common diseases or conditions found in the acute care and primary care setting is presented. This is supplemented with pharmacotherapy modules to meet program specific needs.
Taught by: Boulatta; Carey; Manning
One-term course offered either term
Prerequisite: NURS 607 or NURS 685
Activity: Lecture
1 Course Unit

NURS 609 Advanced Pathophysiology
Integrates basic physiology and clinical pathophysiology for graduate nursing students. Whenever possible basic physiologic concepts will be used to illustrate specific pathophysiological problems. The interrelationships between clinical pathophysiology and basic physiology are emphasized.
Taught by: Tkacs; Staff
Course usually offered in spring term
Prerequisites: NURS 605, or 684, or 695
Activity: Lecture
1 Course Unit
Notes: Summer Session II

NURS 610 Concepts in Healthcare Economics
This course examines health care from an economic perspective tailored for the nurse manager and executive. Emphasis is on the allocation of health care resource policies in the United States with examination of different health care programs. Within the health care industry, focus is on public and private health care funding in addition to the role of managed care systems with relation to financing and delivery of health services. This course satisfies the Society & Social Structures Sector for Nursing Class of 2012 and Beyond.
Taught by: Piper, A
Course usually offered in spring term
Activity: Lecture
0.5 Course Units

NURS 611 Advanced Principles of Nurse Anesthesia Practice: Problem-Based Learning
Course usually offered in fall term
Prerequisite: NURS 609; NURS 858
Activity: Lecture
1 Course Unit

NURS 612 Principles and Practice of Healthcare Quality Improvement
Healthcare delivery is complex and constantly changing. A primary mission of leading healthcare organizations is to advance the quality of patient care by striving to deliver care that is safe, effective, efficient, timely, cost-effective, and patient-centered (Institute of Medicine). The goal of this interprofessional course is to provide students with a broad overview of the principles and tools of quality improvement and patient safety in healthcare as well address the knowledge, skills and attitudes as defined by the Quality and Safety Education for Nurses (QSEN) guidelines. It will provide a foundation for students or practicing clinicians who are interested in quality improvement and patient safety research, administration, or clinical applications. Content will address the history of the quality improvement process in healthcare, quality databases and improvement process tools and programs. Through the use of case studies and exercises students will be become familiar with the use of several quality improvement programs and tools. For example, the Plan-Do-Study-Act (PDSA) cycle, Six Sigma and the Toyota Production System known as Lean Production processes will be addressed. Students can use this course to identify the tools and design the methods that they plan to employ in a quality improvement or patient safety project in their area of interest.
Taught by: Myers, J.; Burke, K.
Course usually offered in fall term
Also Offered As: HPR 504
Activity: Lecture
1 Course Unit

NURS 613 Behavioral Economics and Health
An introduction to the application of behavioral economics to health & health care. Behavioral economics, a field at the intersection of psychology & economics, help us understand how bounded rationality, common cognitive biases, and inconsistent time preferences lead us to act against our best interest (& sometimes against the interests of the patients, family members, or communities that we care for). The course provides a pragmatic, hands-on orientation to using behavioral economics in the diagnosis of behavioral bottlenecks & the design & testing of behaviorally-informed interventions.
Taught by: Buttenheim
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 621 Principles of Nurse Anesthesia Practice V
This course provides a systems approach to examining specialty surgical procedures and the anesthesia requirements for each. Analysis of the pre-anesthesia assessment, the intraoperative monitoring and the post-anesthesia care required for patients undergoing the surgical procedure will be presented. Population specific considerations will be emphasized.
Taught by: Magro; Lynn
Course usually offered in spring term
Prerequisite: NURS 620
Activity: Lecture
1 Course Unit

NURS 625 Clinical Modalities Across the Life Cycle in Advanced Practice Psychiatric Mental Health Nursing
Crisis intervention, brief psycho-therapy, group processes and practices, milieu therapy, and intervention with families are examined as they relate to nursing practice in mental health.
Taught by: Coleman, C.
Course usually offered summer term only
Activity: Lecture
1 Course Unit
NURS 626 Family and Organizational Systems Across the Life Span
This course presents Bowen Family Systems Theory as it applies to families over the life and organizations over time. This is a theoretical course whose purpose is to provide the student with a broad, systemic perspective on human functioning. The course begins with a detailed presentation of Systems Theory, from both a family and organizational perspective. As presented there is a continual compare and contrast to other dominant theories of human functioning. It then applies the concepts of Systems Theory to the understanding and assessment of the stages of the normal family life cycle from a multi-generational, multi-cultural perspective. This is followed by discussions of the theory’s application to the emotional problems of children, adolescents, adults and their families. Likewise, application to organizational behavior is made, including health care organizations. Relevant research is discussed throughout.
Taught by: Pollack, F.
Course usually offered summer term only
Activity: Lecture
1 Course Unit
Notes: Summer Session I

NURS 628 Mental Health and Aging
An examination of the psycho-socio-cultural processes which influence the behavior patterns, coping, and adaptation of older adults. The course emphasizes strategies to promote mental health as well as assessment, presentation, and intervention in the major acute and chronic psychiatric disorders affecting the older adult.
Taught by: Cacchione; Evans
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 629 Basic Principles of Nurse Anesthesia Practice
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 637 Introduction to Research Methods and Design
The relationships among nursing theory, research and practice will be examined. An emphasis will be placed on research competencies for advanced practice nurses (APNs), including understanding nursing research methods and strategies in order to evaluate research results for applicability to practice and to design projects for evaluating outcomes of practice. An understanding of statistical techniques will be integrated into the course and build on the required undergraduate statistics course. Published nursing research studies will be evaluated for scientific merit and clinical feasibility, with a focus on evidence-based practice. Please note, the online version of this course has a synchronous component (live online class sessions). The day/time will be listed in the course register.
Taught by: Polomano; Hatfield; Matura
One-term course offered either term
Prerequisites: Undergraduate Statistics Class. Must hold an RN license.
Activity: Lecture
1 Course Unit
Notes: Also offered in 6 week Summer Session I

NURS 640 Global Health and Health Policy
This participatory interdisciplinary seminar course examines contemporary issues in public health policy and global health. The organizing framework is social determinants of health. We consider evidence that inequalities in education, income, and occupation influence health status, and the policy dilemma that broad interventions to improve population health may increase health disparities. We critically examine whether prevention is always better than cure, and what modern medicine has to offer in terms of health. We explore the public policy process in health using the “tobacco wars” as a case example, of how politics, policy, law, commercial interests, and research intersect to affect the public’s health. We examine whether global health is in a state of decline, and the extent to which failures in public health, public policy, and foreign policy have contributed to increasing threats to world health. Likewise we will examine the potential for greater integration of health into foreign policy to create global infrastructure upon which to advance health. We will examine the global health workforce and the impact of widespread global migration of health professionals on receiving and sending countries. There are no prerequisites. The course is designed for graduate students in the social and behavioral sciences, health professions, public health, business and law. Advanced undergraduate students will be admitted with permission.
Taught by: Aiken; Voet; McLaughlin
Course not offered every year
Activity: Lecture
1 Course Unit

NURS 641 Autism Spectrum Disorder: Prevalence, Etiology, Screening and Assessment
Through classroom and clinical experiences, this course provides an overview of the public health problem of autism spectrum disorder (ASD). Content addresses the natural history, etiology, rising prevalence, risk factors, and core features. Changes in prevalence statistics and possible causes are outlined. These subjects are described in general terms for an overall picture of the disorder. Taking a developmental approach, students begin case management and follow a family through diagnosis, treatments and Assessment.
Course usually offered in fall term
Prerequisites: Post-BSN students only.
Activity: Lecture
1 Course Unit
Notes: Junior and senior undergraduate students may be admitted with course faculty permission.
NURS 642 Health and Behavioral Care Planning and Intervention for Autism Spectrum Disorder
Through classroom and clinical experiences, this course focuses on the application of various treatment approaches to the management of acute and chronic problems of autism spectrum disorder. Approaches to behavioral, psychological and medical co-morbidities are explored, practiced and evaluated. Students’ clinical experiences build on the previous semester and continue with the application of class instruction to patient and family care. The student works closely with behaviorists, psychologists and occupational therapists to integrate nursing care planning with other services. This case approach continues, and exposure to a second family is added to expand learning opportunities and develop nursing services.
Taught by: Pinto-Martin; Souders
Course usually offered in spring term
Prerequisite: NURS 641
Activity: Lecture
1 Course Unit

NURS 643 Leadership, Advocacy, and the Practice of Integrated Nursing Care of ASD
Emphasis is on the synthesis of course content practice. Through classroom and clinical experiences, students critically examine the role of nursing in the life-long care of people with ASD, and identify ways to expand the scope of nursing care for this vulnerable population. Students explore the availability of services in the community and discuss approaches to patient advocacy. Students have opportunities to select an area of specialization to develop specific practice expertise. Such areas are Diagnosis and Referral Practices (e.g. ADOS Training), Behavioral Therapy Training (e.g. Applied Behavioral Analysis), and clinical research. Practical issues of collaboration and reimbursement for services are explored. Students’ clinical experiences are designed to facilitate scholarship, independence and advanced specialization in a chosen component of ASD care, for example, behavioral analysis, screening and/or diagnosis, or an agenda for research. Students identify and implement an independent project.
Taught by: Pinto-Martin; Souders
Course usually offered summer term only
Prerequisite: NURS 642
Activity: Lecture
1 Course Unit
Notes: Spring and/or Summer Offering

NURS 644 Health Care in an Aging Society
Individual and societal influences on the care of older adults are examined in detail within the context of an emerging health care system. Normal changes in physical and psychological health are explored in depth. Significant issues affecting care of older adults and their families at the global and national level are discussed.
Taught by: Bradway;
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 646 Primary Care: Diagnosis and Management of Adults Across the Lifespan
This course focuses on development of critical thinking skills to address health care problems of adults across the lifespan, with an emphasis on middle-aged and older adults, develop differential problem solving skills and determine appropriate management interventions. The management of common acute and chronic health conditions will include evidence based primary preventions, drug and treatment therapeutics, and referral to other health care providers. Students have the opportunity to build on previously acquired skills and to apply concepts of primary care to manage the health problems of adults across the lifespan.
Taught by: Bradway; Cotter
Course usually offered in fall term
Prerequisite: NURS 657
Activity: Lecture
1 Course Unit

NURS 647 Primary Care Clinical Practicum: Diagnosis and Management of Adults across the Lifespan
Management and evaluation of primary care problems of middle-aged and older adults in a variety of ambulatory and occupational settings. Opportunity to implement the role of the nurse practitioner with middle-aged and older adults and their families in the community. Interdisciplinary experiences will be pursued & collaborative practice emphasized. Students are expected to assess and begin to manage common chronic health problems in consultation with the appropriate provider of care. The initiation of health promotion & health maintenance activities with individuals and groups is stressed. Includes 16 hours a week of clinical experience with a preceptor.
Taught by: Cross; O’Sullivan
Course usually offered in fall term
Prerequisite: NURS 657
Corequisite: NURS 646
Activity: Clinic
1 Course Unit

NURS 648 Primary Care: Complex Diagnosis and Management of Adults across the Lifespan
This course will build on concepts presented in the Diagnosis and Management of Adults across the Lifespan (NURS 646) course. The focus is on refining health assessment skills, interpreting findings, developing and implementing appropriate plans of care to meet common health maintenance needs of adults and to promote the health of adults with more complex health problems with an emphasis on the frail adult. The student will gain increased expertise in communication skills, health assessment skills, interpreting findings, epidemiological concepts and developing and implementing plans of care. The emphasis will be placed upon managing an aging population with complex, chronic healthcare needs and promoting healthy behaviors across the lifespan.
Taught by: Cotter
Course usually offered in spring term
Prerequisites: NURS 646, 647
Activity: Lecture
1 Course Unit
NURS 649 Primary Care Clinical Practicum: Complex Diagnosis and Management of Adults across the Lifespan
The focus of this course is the application of concepts presented in the Complex Diagnosis and Management of Adults Across the Lifespan (NURS 648) including initial workups of new patients, and the evaluation and management of patients with self-limiting acute problems, or stable chronic illnesses. Students will gain increased clinical expertise in a variety of community-based clinical settings including but not limited to health maintenance organizations, community clinics, long term care, assisted living, continuing care retirement communities, occupational health settings, and private practice. The student will gain increased expertise in communication skills, health assessment skills, interpreting findings, applying epidemiological concepts and developing and implementing plans of care for adults across the lifespan with health maintenance needs, and/or common acute and chronic health problems.
Taught by: Cotter; Taylor
Course usually offered in spring term
Prerequisites: NURS 646, 647
Corequisite: NURS 648
Activity: Clinic
1 Course Unit

NURS 650 Systems Thinking in Patient Safety
This blended online/in-classroom graduate level course integrates principles of systems thinking with foundational concepts in patient safety. Utilizing complexity theories, students assess healthcare practices and identify factors that contribute to medical errors and impact patient safety. Using a clinical microsystem framework, learners assess a potential patient safety issue and create preventive systems. Lessons learned from the science of safety are utilized in developing strategies to enhance safe system redesign. Core competencies for all healthcare professionals are emphasized, content is applicable for all healthcare providers including, but not limited to, nurses, pharmacists, physicians, social workers and healthcare administrators, and may be taken as an elective by non-majors.
Course usually offered in spring term
Also Offered As: HPR 650
Activity: Lecture
1 Course Unit

NURS 651 Nursing Informatics
This course is designed to introduce the student to fundamental concepts and issues surrounding technology and information management in today's rapidly changing health care environment. Emphasis will be placed on defining informatics and the models and theories used in its development. To prepare the student to take a leadership role in information system design and selection the class will study the process of information systems analysis, implementation and evaluation involving functional, organizational and human aspects.
Taught by: Bowles; Maffei
Course usually offered summer term only
Prerequisite: Basic Computer Skills
Activity: Online Course
1 Course Unit

NURS 652 Applied Healthcare Accounting and Business Planning
This course focuses on the management of financial resources in the healthcare industry particularly in inpatient and ambulatory care settings. Specific emphasis is on applied accounting, budgeting, capital planning, nursing staffing/scheduling and variance analysis. Additionally, students will apply concepts in developing a business/program plan including completion of an environmental scan, cost-benefit analysis and marketing plan. Students will engage in strategic planning, stakeholder analysis and benchmarking efforts.
Taught by: Keim; Fuir
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 655 Nursing Administration Practicum
This administrative practicum will be individually tailored to meet each student's career goals. Students will be placed with an expert role model who in most instances will be a practicing nurse executive. The setting may vary according to the student's interests and objectives. Examples include acute care, home care, long term care, occupational health, community based clinics, consulting groups and political/legislative experiences.
Taught by: Keim, DiMichele
One-term course offered either term
Prerequisite: NURS 699
Activity: Clinic
1 Course Unit

NURS 656 Professional Role Issues for Nurse Practitioners
This course is intended for students planning a career that involves primary health care delivery. It includes lectures, discussions, readings, and projects focused on health, social, economic and professional factors influencing health care delivery in the community.
Taught by: O'Sullivan; Bryan
Corequisite: NURS 657
Activity: Lecture
1 Course Unit

NURS 657 Advanced Physical Assessment and Clinical Decision Making
This is a laboratory/clinical course designed to help prospective nurse practitioners develop advanced clinical assessment skills. Provider-patient interaction, data collection, and hypothesis formulation are emphasized. All participants engage in actual practice with fellow students, and/or models, and consenting patients.
Taught by: Buzby; Reger; Sherry
Activity: Laboratory
1 Course Unit
**NURS 658 Clinical Management of Primary Care with Young Families**
Assessment and treatment of the young child in ambulatory care settings is the focus of this developmentally organized course. This course provides the nurse practitioner student with the necessary knowledge and experience to assist individuals with the most common health problems, including acute episodic illness as well as stable chronic disease. The concepts of health promotion and health maintenance are integrated throughout the curriculum. Using a developmental framework, the maturational tasks and problems of children and their families in relation to illness and health are explored.

Taught by: O'Sullivan
One-term course offered either term
Prerequisites: NURS 656, 657
Corequisite: NURS 659
Activity: Lecture
1 Course Unit

**NURS 659 Clinical Practicum: Primary Care with Young Families**
Management and evaluation of primary care problems of children in a variety of ambulatory settings. Opportunity to implement the role of nurse practitioner with children and their families in the community occurs under the guidance of faculty and experienced preceptors. The initiation of health promotion and health maintenance activities with individuals and groups is stressed. Collaborative, interdisciplinary practice is emphasized as students assess and manage common problems in consultation with an appropriate provider of care. 20 hours a week of clinical experience with a preceptor is arranged.

Taught by: O'Sullivan
One-term course offered either term
Prerequisites: NURS 656, 657
Corequisite: NURS 659
Activity: Clinic
1 Course Unit

**NURS 660 Clinical Practice with Select Populations: Adolescents**
Focus on assessment and treatment of adolescents in a variety of settings. Didactic emphasis is on the special needs encountered among adolescents. This course adds to the student's previous knowledge and skill in the delivery of primary care. Working with this specific population the student gains necessary knowledge and experience in assisting individuals with most common health problems, including acute episodic illness and stable chronic disease, as well as health promotion needs.

Taught by: O'Sullivan
Course usually offered summer term only
Prerequisites: NURS 656, 657, 658, 659
Activity: Clinic
1 Course Unit
Notes: Summer Session I

**NURS 661 Clinical Management of Primary Care with Adults**
Assessment and treatment of younger adults in ambulatory care settings is the focus of this clinical course. The course provides the nurse practitioner student with the necessary knowledge and experience to assist individuals with most common health problems, including acute episodic illness. The concepts of health promotion and health maintenance are integrated throughout the curriculum. Using a developmental framework, maturational tasks and problems of the adult and family in relation to illness and health are explored.

Taught by: O'Sullivan
Course usually offered summer term only
Prerequisites: NURS 664, 667 or NURS 658, 659
Activity: Clinic
0 Course Units
Notes: Summer Session I

**NURS 663 Advanced Concepts in Primary Care**
In conjunction with the development of advanced clinical skills, students focus on advanced practice role development and the study of issues in health service delivery related to the practice of primary health care. Economics, case management and cultural/ethical aspects of care are discussed.

Taught by: O'Sullivan
Course usually offered summer term only
Prerequisite: NURS 660 or NURS 661
Activity: Clinic
1 Course Unit
Notes: Summer Session II

**NURS 664 Advanced Practice Nursing for Oncology Care**
Students are introduced to cancer epidemiology and pathophysiology, cancer genetics, prevention, risk assessment and reduction for specific cancers, screening techniques, diagnostic procedures and criteria, and local and systemic therapies used to treat cancer. The influence of individual characteristics on health promotion, health behaviors, population cancer risk, and cancer detection are explored in the context of biological, psychological, socioeconomic and sociocultural factors across age groups from adolescents to older adults. Evidence-based practice guidelines and research are applied to promote healthy lifestyles, monitor cancer risk, address psychosocial issues, facilitate access to care, and reduce health care disparities for populations at risk and diagnosed with cancer, and cancer survivors.

Taught by: Hollis, Polomano
Course usually offered in fall term
Prerequisite: NURS 607; NURS 637
Activity: Online Course
1 Course Unit
Notes: Summer 12 Week Session; Permission to take this course as an elective must be approved by the course faculty.

**NURS 666 Effects of Cancer and Cancer Therapy**
Principles of cancer treatment, associated responses and symptom management are presented. Emphasis is on the development of advanced clinical decision making skills in identifying multiple alterations resulting from cancer and cancer therapy.

Taught by: Walker, Prechel-Dunphy
Course usually offered in spring term
Prerequisites: NURS 646, 664
Corequisite: NURS 667
Activity: Online Course
1 Course Unit
NURS 667 Oncology Nursing: Assessment, Diagnosis, & Cancer Management
Emphasis is on the application of critical thinking and diagnostic reasoning skills in advanced clinical decision making. Students access, diagnose, and manage the care of oncology patients with a variety of cancers. The delivery of care and evaluation of role effectiveness within the health care system are examined.
Taught by: Polomano; Walker; Prechtel-Dunphy
Course usually offered in spring term
Prerequisites: NURS 664, NURS 666
Corequisite: NURS 666
Activity: Online Course
1 Course Unit
Notes: $60 Lab Fee

NURS 670 Principles of Adult Gerontology Acute Care I
This didactic course examines the epidemiologic, assessment, diagnostic, management and evaluation of acutely or critically ill adults across the adult-older adult age spectrum. Students explore the dynamic interplay between the pathophysiologic basis of disease and the psychosocial and socio-cultural responses to acute and critical illness and injury as they develop clinical decision-making skills. An evidence-based approach to nursing and medical management including pharmacologic and non-pharmacologic modalities is emphasized. Cardiovascular and pulmonary systems, infectious and prevention issues commonly encountered by adults are covered. Particular focus is placed on specific issues related to the older adult such as frailty, dehydration, loss of functional mobility, falls, and other geriatric syndromes.
Taught by: Pawlow; Elgart; Becker; Doherty
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 671 Principles of Adult Gerontology Acute Care II
In this didactic course, students learn to integrate their advanced pharmacology and pathophysiology background with their understanding of acute illness and injury. The focus is on the evidence-based management of patients with neurologic, gastrointestinal, renal, oncologic, and metabolic health problems. Students develop skills to create a differential diagnosis when an adult/older-adult presents with a constellation of symptoms. Common and atypical presentations of illness and disease are explored. Focus is placed on holistic care including the psychosocial, cultural, and spiritual aspects of patients' response to their illness or injury. Epidemiology, assessment, diagnosis, management, and advanced clinical decision making based on current clinical research are emphasized.
Taught by: Pawlow; Elgart; Becker; Doherty
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 672 Principles of Adult Gerontology Acute Care III
This didactic course examines issues related to the epidemiology, assessment, diagnosis, management and evaluation of acute, critical and complex chronically ill adults across the adult-older adult age continuum. Students explore the dynamic interplay between the pathophysiologic basis of disease and the psychosocial and socio-cultural responses to illness and injury across the adult age continuum as they develop clinical decision-making skills. An evidence-based approach to nursing and medical management including pharmacologic and non-pharmacologic modalities is emphasized. Content focuses on special adult and older adult patient populations with commonly encountered health problems.
Taught by: Pawlow; Elgart; Becker; Doherty
Course usually offered summer term only
Activity: Lecture
1 Course Unit

NURS 673 Advanced Clinical Decisions in Adult Gerontology Acute Care
This didactic and fieldwork course focuses on development of a systematic approach to advanced physical assessment, the use and interpretation of diagnostic technologies and development of diagnostic reasoning as it applies to patient management of the adult-older adult acutely ill or injured patient. Emphasis is placed on development of competence to perform a comprehensive history and physical examination, incorporating the analysis of biotechnological data trends. Building fundamental skills in developing differential diagnoses and clinical decision making for acutely ill patients across the adult age continuum is a focus of this course.
Taught by: Pawlow; Griffith; Becker
Course usually offered in fall term
Prerequisites: NURS 607, 657
Corequisite: NURS 670
Activity: Seminar
1 Course Unit

NURS 674 Adult Gerontology Acute Care NP. Professional Role and Clinical Practicum I
This didactic and clinical fieldwork course explores issues relevant to the role of the Adult Gerontology Acute Care Nurse Practitioner within the complex U.S. health care system. Role development, reimbursement issues, provision of quality and ethical care and evidence-based nursing and medical interventions are introduced and discussed in the classroom. Clinical fieldwork focuses on assessment of complex acute, critical and chronically-ill patients for urgent and emergent conditions, using both physiologically and technologically derived data, to evaluate for physiologic instability and potential life-threatening conditions, development of differential diagnoses, application of diagnostic reasoning and formulation, implementation, evaluation and modification of individualized plans of care including pharmacological and non-pharmacological modalities. Development of advanced clinical competencies and clinical decision making abilities about adults across the age continuum is emphasized.
Taught by: Becker; Griffith
Course usually offered in spring term
Prerequisite: NURS 673
Activity: Lecture
1 Course Unit
NURS 675 Adult Gerontology Acute Care NP: Professional Role and Clinical Practicum II
This didactic and fieldwork course focuses on the role of the Adult Gerontology Acute Care Nurse Practitioner and the expansion of advanced clinical competencies and clinical decision making abilities. Clinical experiences in acute care settings provide the student with opportunities to refine history and physical examination techniques, diagnostic reasoning, formulation, implementation, evaluation and modification of individualized management plans. Specific attention is given to the unique presentation of syndromes and constellation of symptoms that may be typical or atypical presentation of complex acute, critical and chronic illness in adults and older adults. Facilitating transition of patients at varying life stages through the complex health care system is encouraged exploring the multiple governmental, social and personal resources available to acutely ill adults across the age continuum. The application of advanced nursing, medical and biopsychosocial knowledge in the management of patients and the collaboration between the nurse practitioner and the patient, family and interprofessional healthcare team are emphasized.
Taught by: Becker; Griffith; Doherty
Course usually offered summer term only
Prerequisites: NURS 670, 671, 672, 673, 674
Activity: Lecture
1 Course Unit
Notes: Summer I II - 12 Week Course

NURS 677 Environmental Toxicology: Risk Assessment and Health Effects
This course presents general principals of toxicology and the disposition of toxins in the body. Case studies of the effects of environmental and occupational toxins on individuals will be analyzed. This course is designed for students who desire a strong foundation in toxicological concepts and principals and provides an overview of major toxins in our environment and their association with human health.
Taught by: Liu
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: Undergraduates Need Permission

NURS 681 Applied Physiology for Nurse Anesthetists I
This course provides an in-depth analysis of the anatomy, physiology and pathophysiology of the respiratory and cardiovascular systems and related anesthesia implications. The concepts of ventilation and perfusion as they relate to oxygen and anesthetic delivery and metabolism are examined. The effects of compromised cardiac and pulmonary function and their implications for the patient and anesthesia plan are reviewed. The impact of anesthesia on the structure and function of the heart as a pump as well as the characteristics of systemic circulation will be explored. The effect of surgery and anesthesia on the respiratory and cardiovascular systems will be emphasized.
Taught by: Magro; Lynn; Tkacs
Course usually offered summer term only
Activity: Lecture
1 Course Unit
Notes: 12 Week Summer Session

NURS 682 Applied Physiology for Nurse Anesthetists II
This course provides an in-depth analysis of the anatomy, physiology and pathophysiology of the hepatic, renal, nervous, hormonal, immunologic and hematological systems and related anesthesia implications. The focus of discussion will be on the special considerations when delivering anesthetic agents to patients. Emphasis will be placed on the assessment of the patient with common disorders of these systems. Nurse anesthesia care related to patients undergoing surgeries involving each system will be discussed.
Taught by: Magro; Lynn; Libonati
Course usually offered in fall term
Prerequisite: NURS 681
Corequisite: NURS 607
Activity: Lecture
1 Course Unit

NURS 683 Applied Science Related to Anesthesia
This course is an in-depth analysis of the chemical and physical principles as they apply to nurse anesthesia practice. Aspects of organic and biochemistry including the chemical structures of compounds and its significance in pharmacology will be explored. Applications of the laws of physics as they pertain to nurse anesthesia practice will be reviewed with specific examples. Emphasis on the dynamics of the anesthesia delivery system and related equipment will be presented.
Taught by: Magro; Lynn; Scanga
Course usually offered in spring term
Prerequisites: NURS 607, 681, 682
Activity: Lecture
1 Course Unit

NURS 685 Advanced Developmental Physiology and Pathophysiology
This course will address advanced human embryology, physiology and pathophysiology. Biochemical genetics and the genetic basis of disease will be discussed. Normal fetal development and physiology of organ systems will be used as the foundation for understanding the pathophysiology of disease across the lifespan.
Taught by: Trimarchi; Marino
Course usually offered in fall term
Prerequisite: Undergraduate course in Anatomy & Physiology
Activity: Lecture
1 Course Unit

NURS 686 Well Woman Health Care
This course focuses on the management and evaluation of physical, emotional, socio-cultural and educational needs of gynecologic primary health care of women from adolescence through post-menopausal years. The content is directed at expanding the expertise of the student in meeting the primary women's health care needs in contemporary society. Social influences that have an impact on women's lives are also explored.
Taught by: Durain; Grube; Nagtalon-Ramos
Course usually offered in fall term
Prerequisite: NURS 657
Activity: Lecture
1 Course Unit
NURS 688 Complementary/Alternative Therapies in Women's Health
The dramatic rise in the use of complementary and alternative medicine (CAM) by the American public requires that the contemporary health care practitioner have an awareness of CAM therapies and modalities currently available. The end result of this course will not be proficiency in the practice of any of these modalities in particular, but rather a basic understanding of each approach to common conditions and their potential contribution to health and well-being. The focus of the CAM modalities discussed in this course will center on their use in women's health care provision.
Taught by: Grube
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 690 Family Focused Primary Care of the Middle-Aged and Older Adult
This course focuses on primary care problems encountered by middle-aged and older adults and their families. Students have the opportunity to build on previously acquired skills and to apply concepts of primary care to manage the complex health problems of middle-aged and older adults.
Taught by: O’Sullivan
Course usually offered in spring term
Prerequisites: NURS 656, 657
Corequisite: NURS 691
Activity: Lecture
1 Course Unit

NURS 691 Clinical Practicum: Family Focused Primary Care of the Middle Aged and Older Adult
The focus of this course is the evaluation and management of primary care problems in middle-aged and older adults. Students will have an opportunity to implement the role of the nurse practitioner in the clinical setting. Interdisciplinary collaborative experiences will be essential to the clinical practicum. The initiation of health promotion and health maintenance activities with individuals, groups and families is stressed. Students are expected to assess and manage common chronic health problems in the clinical setting.
Taught by: O’Sullivan
Course usually offered in spring term
Prerequisites: NURS 656, 657
Corequisite: NURS 691
Activity: Clinic
1 Course Unit

NURS 693 Professional Issues in Midwifery
In-depth discussion of current issues facing the profession of nurse-midwifery which impact on professional education, certification, and practice. Includes ethical, legal, and political aspects of nurse-midwifery practice.
Taught by: McCool; Reale; Guidera
Course usually offered in fall term
Prerequisites: NURS 787, 788
Corequisite: NURS 786
Activity: Lecture
1 Course Unit

NURS 697 Leadership in Advanced Oncology Nursing Practice
Students explore the diagnosis and treatment of common cancers in a multidisciplinary approach. The broad array of bio-medical and psychosocial issues that result from the disease itself across the illness continuum are studied. Quality of life, rehabilitation and palliative care issues related to cancer care are addressed. Additionally, students complete an administrative practicum with a nursing leader in an oncology specialty area within a healthcare organization.
Taught by: Keim; Prechtel Dunphy; Sherry; Walker
Course usually offered summer term only
Prerequisites: NURS666 and all requisite nursing courses in the Nursing & Healthcare Administration (NADM) program. May be taken concomitantly with NURS699 or at the discretion of the NADM Program Director.
Activity: Field Work
1 Course Unit

NURS 698 Practicum: Quality Improvement in Healthcare
Building on coursework that provided a broad overview of the principles and tools of quality improvement and patient safety in healthcare, students will apply this knowledge through completion of a mentored quality improvement project in a healthcare organization. In collaboration with faculty and health organization preceptors, students will identify a quality improvement opportunity and develop specific project objectives including, but not limited to, the use of appropriate tools, identification of measurable aims and evaluation methods, sustainable recommendations for process improvement and a comprehensive report of findings and recommendations. This course is part of the Quality Improvement and Safety Processes in Healthcare Minor and should be completed by the student as the capstone course in that minor; students engage in 192 hours of on-site project work.
Taught by: Piper; Keim
Course usually offered in spring term
Prerequisites: NURS 650, NURS 537, NURS 612
Activity: Field Work
1 Course Unit
Notes: Summer and Fall Placement

NURS 699 Advanced Roles in Administrative Nursing Practice
Offered at the end of the Nursing and Health Care Administration or Health Care Leadership programs, this course prepares the graduate for entry into a myriad of administrative or leadership roles. Students will explore role responsibilities for various levels of management positions; health care consultants; health policy advocates; global health leaders; staff development directors; and administrators in non-traditional settings i.e., journal editors, professional associations etc.
Taught by: Rich ; Keim
Course usually offered summer term only
Prerequisites: NURS666 and all requisite nursing courses in the Nursing & Healthcare Administration (NADM) program. May be taken concomitantly with NURS699 or at the discretion of the NADM Program Director.
Activity: Lecture
1 Course Unit
NURS 705 Advanced Practice Nursing Practice: Psychiatric Mental Health NP I
Supervised advanced psychiatric mental health nursing practice with children, adolescents and their families, or adults and/or older adults and their families in a variety of settings, depending on the subspecialty option selected. Focus is on clinical assessment/diagnosis and decision-making. A minimum of 16 hours of practice and 3 hours of small group supervision is required.
Taught by: Leahy; Mulligan; Josey
Course usually offered in fall term
Activity: Seminar
1 Course Unit

NURS 706 Advanced Practice Nursing Practice: Psychiatric Mental Health NP II
Supervised advanced psychiatric mental health nursing practice with children, adolescents and their families, or adults and/or older adults and their families in a variety of settings, depending on the subspecialty option selected. Refinement and development of clinical intervention with an increasingly diverse caseload. A minimum of 16 hours of practice and 3 hours of small group supervision is required.
Taught by: Leahy; Mulligan; Josey
Course usually offered in spring term
Activity: Seminar
1 Course Unit

NURS 707 Advanced Practice Nursing Practice: Psychiatric Mental Health NP III
Supervised advanced psychiatric mental health nursing practice with children, adolescents and their families, or adults and/or older adults and their families in a variety of settings, depending on the subspecialty option selected. Outcome evaluation, termination and professional role development. A minimum of 16 hours of practice and 3 hours of small group supervision is required.
Taught by: Leahy; Mulligan; Josey
Course usually offered summer term only
Activity: Seminar
1 Course Unit
Notes: Summer Session I

NURS 708 Public Policy Leadership in the American Public/Private System of Health Care
This course will explore the philosophy and growth of public policy that has directed the American Health Care System in its ever expanding movement toward universal health care for all citizens. Analysis of health policy and systems content will assist the students to identify the knowledge and skills needed for the health or human service provider to assume leadership roles in the formulation of public policy for change; this includes system restructuring, service delivery and funding of health care. Emphasis will be on the effect of policy on the individual/family user of health care services rather than the effect on professional health care providers or health care delivery systems. Special attention will be given to the effect of policy on populations, both urban and rural, living near and below the poverty level.
Taught by: Durain
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 714 Management of Critically Ill Children with Acute and Chronic Conditions: Nursing of Critically Ill Children Advanced Clinical
This clinical course is designed with emphasis on continued development of advanced clinical decision-making skills in the care of critically ill children. Emphasis is placed on knowledge and skills that allow the advanced practitioner to efficiently and effectively manage children who are dependent upon or assisted by technological devices to carry out life processes.
Taught by: Verger; Bartke
Course usually offered summer term only
Prerequisites: NURS 712, 713
Activity: Lecture
1 Course Unit
Notes: Summer Session II

NURS 715 Common Management Issues of Children with Acute and Chronic Conditions: Pediatric Oncology
This course examines the unique contribution made by nurses with advanced clinical skills in the care of children with oncologic and hematologic disorders, and their families, from the time of diagnosis throughout the treatment period and beyond. The course provides the student with the most recent advances in knowledge about cancer in childhood. While the focus is on oncology, hematologic disorders as well as AIDS will be discussed. Recent methods of treatment and the nursing management of children and their families will be addressed.
Taught by: Hobbie
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 720 Nursing of Children Theory I: Child and Family Development
This course focuses on developmental theories and concepts that form the basis for nursing assessment and intervention with children and families. Emphasis is given to current research and issues in child and family development and functioning.
Taught by: Deatrick; Murphy, K
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 721 Advanced Physical Assessment and Clinical Decision Making: Nursing of Children Advanced Clinical
This clinical course is designed with emphasis on continued development of advanced physical assessment and clinical decision making skills in the care of children with acute and chronic conditions. Emphasis is placed on knowledge and skills that allow the advanced practitioner to efficiently and effectively manage children who are dependent upon or assisted by technological devices to carry out life processes.
Taught by: Deatrick; Murphy, K
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 722 Advanced Physical Assessment and Clinical Decision Making: Nursing of Children Clinical
This clinical course is designed with emphasis on continued development of advanced physical assessment and clinical decision making skills in the care of children with acute and chronic conditions. Emphasis is placed on knowledge and skills that allow the advanced practitioner to efficiently and effectively manage children who are dependent upon or assisted by technological devices to carry out life processes.
Taught by: Deatrick; Murphy, K
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 723 Advanced Physical Assessment and Clinical Decision Making: Nursing of Children Intensive Clinical
This clinical course is designed with emphasis on continued development of advanced physical assessment and clinical decision making skills in the care of children with acute and chronic conditions. Emphasis is placed on knowledge and skills that allow the advanced practitioner to efficiently and effectively manage children who are dependent upon or assisted by technological devices to carry out life processes.
Taught by: Deatrick; Murphy, K
Course usually offered in fall term
Activity: Lecture
1 Course Unit
NURS 731 High-Risk Neonate, Theory
This course focuses on the care of high-risk neonates within the context of the family unit. The biological and psychosocial aspects are studied as a basis for nursing practice. Emphasis is placed on the role of the Advanced Practice nurse in improving services to high-risk neonates with the purpose of decreasing mortality and morbidity rates and improving the quality of life of high-risk newborns and infants.
Taught by: Verger; Steele
Course usually offered in spring term
Prerequisites: NURS 684, 720, 721
Corequisite: NURS 733
Activity: Lecture
1 Course Unit
Notes: Summer Session I

NURS 733 Clinical Practicum for the High Risk Neonate
This clinical course focuses on the care of the high risk infant within the context of the family unit. Clinical experiences provide students with opportunities to expand their skills in managing the care of infants, both acutely ill and growing neonates. Students continue their experiences with neonatal nurse practitioners to examine role issues of these individuals.
Taught by: Verger; Steele
Course usually offered in spring term
Prerequisites: NURS 684, 720, 721
Corequisite: NURS 731
Activity: Lecture
1 Course Unit

NURS 734 Intermediate Principles of Pediatric Acute Care
This course focuses on evidenced based care for infants, children, and adolescents with complex acute and chronic health conditions. Emphasis is placed on developing a framework for practice based on a synthesis of knowledge from biological, behavioral, and nursing sciences through the process of advanced clinical decision making. The student gains the necessary clinical management skills to provide specialized patient centered care across the entire pediatric age spectrum from complex chronic illness to physiologic deterioration and life threatening instability with emphasis on the patient and family as a full partner in decision making.
Taught by: Murphy, K.; Verger
Course usually offered in spring term
Prerequisite: NURS 720; NURS 721; NURS 685 or NURS 607
Corequisite: NURS 735
Activity: Lecture
1 Course Unit

NURS 735 Pediatric Acute Care Nurse Practitioner: Professional Role and Intermediate Clinical Practice
This course focuses on the implementation of the professional role of the Pediatric Acute Care Nurse Practitioner (PNP-AC). Particular emphasis is placed on the role components of the nurse practitioner in pediatric acute care. Applications of nursing, biological and behavioral science are emphasized in the advanced clinical assessment, clinical decision making and management skills needed to care for complex, unstable acutely and chronically ill children and their families. The role of the advanced practice nurse in promoting optimal child/family outcomes is emphasized.
Taught by: Verger; Lipman; Schucker; Campisciano
Course usually offered in spring term
Prerequisite: NURS 720; NURS 721; NURS 685 or NURS 607
Corequisite: NURS 734
Activity: Lecture
1 Course Unit

NURS 736 Advanced Principles of Pediatric Acute Care
This course expands the student's understanding evidenced based care for infants, children, and adolescents with complex acute and chronic health conditions. Emphasis is placed on advancing a framework for practice based on a synthesis of knowledge from biological, behavioral, and nursing sciences through clinical decision making. The student continues to gain the necessary clinical management skills to provide specialized patient centered care across the entire pediatric age spectrum from complex chronic illness to physiologic deterioration and life threatening instability with emphasis on the patient and family as a full partner in decision making.
Taught by: Murphy, K; Verger; Lipman
Course usually offered summer term only
Prerequisite: NURS 734; NURS 735
Corequisite: NURS 737
Activity: Lecture
1 Course Unit

NURS 737 Pediatric Acute Care Nurse Practitioner: Professional Role and Advanced Clinical Practice
This course focuses on the implementation of the professional role of the Pediatric Acute Care Nurse Practitioner (PNP-AC). This course adds to the students' previous knowledge and skills and prepares them to deliver care to children of any age who require frequent monitoring and intervention. Applications of nursing, biological and behavioral science are emphasized in the advanced clinical assessment, clinical decision making and management skills needed to care for complex, unstable acutely and chronically ill children and their families.
Taught by: Verger; Lipman; Schucker; Campisciano
Course usually offered summer term only
Prerequisite: NURS 734; NURS 735
Corequisite: NURS 736
Activity: Lecture
1 Course Unit

NURS 740 Advanced Practice Concepts for the Childbearing Family
The seminar will provide students with the skills necessary to provide primary health care to high risk infants in ambulatory settings. Course material will include detailed physical assessment skills of the infant through the first year of life. The clinical component will include home visits and experience in the ambulatory and long term care settings.
Taught by: Steele
Course usually offered in fall term
Activity: Lecture
1 Course Unit
NURS 741 Management of Children with Acute and Chronic Conditions: Nursing of Children in the Community Advanced Clinical
This course focuses on the implementation of the role of the advanced practice nurse with particular emphasis on providing continuity of care for children with specialized health needs across their transitions in sites of care delivery and throughout phases in the cycle of their illnesses. Application of nursing, biological and behavioral science is emphasized in the community aspects of clinical assessment and management of children with health care needs and their families.
Taught by: Deatrick; Lipman; Murphy, K.
Course usually offered summer term only
Prerequisites: NURS 724, 725
Activity: Lecture
1 Course Unit
Notes: Summer Session II

NURS 743 Fetal Evaluation
This course focuses on identifying at risk and high risk maternal fetal dyads, developing knowledge relating to assessment of fetal well being, and understanding the implications of obstetric, non obstetric, and fetal complications on the management of the high risk pregnancy. Additionally the course provides an understanding of the scientific basis for new technologies used to evaluate at risk and high risk populations. Information about the physics of ultrasound, pulse echo imaging, and doppler techniques will be provided. Students must be able to practice ultrasound skills while in this course.
Taught by: Stringer
Course usually offered in spring term
Prerequisite: NURS 607
Activity: Lecture
1 Course Unit

NURS 745 Data Analytics
Activity: Lecture
1 Course Unit

NURS 748 Leadership Development in Healthcare
This course will provide the conceptual and theoretical framework for examining the concept of leadership within the contexts of health systems, health professionals and health policy. It will focus on characteristics of personal and professional leadership, change theory, and the application of critical thinking to the analysis of work environments, systems and the politics of health.
Taught by: Fidyk
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 749 History, Health and Social Policy
This course explores the impact of historical ideas, events, and actors on current issues in health and illness care. Topics include the movement from hospitals to health care systems; the changing definitions of professionalism and professional practice patterns; and the ways historical context shapes definitions of leadership roles and theoretical knowledge.
Taught by: D’Antonio
Course usually offered in spring term
Activity: Lecture
1 Course Unit

NURS 750 Inquiry and Nursing
This course introduces students to the process of intellectual inquiry. It explores the intellectual foundations of scholarly disciplines in general and the discipline of nursing in particular. Emphasis is placed on the process of knowledge development, with particular emphasis on historical, philosophical, positivist, and gendered and phenomenological ways of knowing. Emphasis is also placed on having students develop their particular intellectual approach to disciplinary inquiry and on formulating ideas for publications and presentations.
Taught by: Richmond
Course usually offered in fall term
Activity: Lecture
1 Course Unit
Notes: For doctoral students in nursing

NURS 752 Clinical Fieldwork for Nurse Anesthesia Practice II
This course provides the opportunity for students to integrate theoretical knowledge and research findings into practice within the clinical setting. The clinical progression allows students to provide anesthesia care to patient with complex, multisystem problems. Selected surgical specialty rotations begin, introducing the student to the particular requirements for these special. Techniques for managing the acute pain of clients are also emphasized. The student grows in the ability to individualize a plan of care specific to the patients needs and surgical requirements. The student also now possesses the ability to combine theories and skills in selected clinical situations. The guidance of CRNA faculty preceptors contributes to the development of the students critical thinking.
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 753 Evolving Nursing Science
A consideration of contemporary nursing research as it pertains to the current state of the art and directions for future study. Advanced analysis of methodology, assumptions, and theoretical structures that underpin the work.
Taught by: Sommers; Riegel
Course usually offered in spring term
Prerequisite: NURS 750
Activity: Lecture
1 Course Unit
Notes: For doctoral students in nursing

NURS 754 Quantitative Research Design and Methods
This one semester survey course provides an overview of quantitative clinical research design and methods. Ethical and legal considerations in human subjects research, access to patient populations, sampling designs and power analysis, experimental and non-experimental designs, measurement of variables, data collection techniques, and data management are included. This course is intended for doctoral students in the health sciences.
Taught by: Pinto-Martin; Meghani
Course usually offered in spring term
Prerequisites: Students must have completed at least one doctoral-level statistics course. The current doctoral recommendations include: SOCI 535; SOCI 536; STAT 500; STAT 501; PUBH 501; EPID 524; EPID 525.
Please contact course faculty for permission for courses taken outside of the above recommendations
Activity: Lecture
1 Course Unit
Notes: For doctoral students in nursing.
NURS 755 Application of Statistics to Nursing Research II
Integration of non-experimental quantitative research designs and methodologies, including common statistical techniques for analyzing resulting data. Statistical techniques examined include: factor analysis, multiple regression, canonical correlation, causal modeling, and logistic regression. Power analysis of statistical tests to estimate sample size discussed. Data analysis practice using computer software integrated throughout course.
Taught by: Tulman
Course usually offered in fall term
Prerequisite: NURS 754
Activity: Lecture
1 Course Unit
Notes: For doctoral students in nursing

NURS 756 Nurse Anesthesia Res I: Nurse Anesthesia Residency I
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 757 Nurse Anesthesia Res II: Nurse Anesthesia Residency II
Activity: Lecture
1 Course Unit

NURS 758 Nurse Anesthesia Residency III
This course is the third of four residencies that provide the nurse anesthetist student the opportunity to attain competencies within the Certified Registered Nurse Anesthesia (CRNA) scope of practice. Throughout the residency, the nurse anesthesia resident will utilize appropriate clinical judgment to manage the complex medical, physical and psychosocial needs of clients in the perioperative phases. Further refinement of the patient assessment, anesthesia administration, and critical thinking skills will be emphasized. Students' progress by providing anesthesia care for patients throughout the continuum of health care services. The guidance of CRNA faculty preceptors contributes to the development of the independence of the CRNA student. Collaborative practice within a care team model is emphasized and the student assumes more overall responsibility for the quality of care for the patients throughout the perioperative experience, with clinical support as required.
Taught by: Winner; Bent
Prerequisite: NURS 757
Activity: Lecture
1 Course Unit

NURS 759 Nurse Anesthesia Residency IV
Course usually offered in fall term
Prerequisite: NURS 758
Corequisite: NURS 611
Activity: Lecture
1 Course Unit

NURS 764 Advanced Technologies & Clinical Decisions in Acute Care
This fieldwork course focuses on development of a systematic approach to advanced physical assessment, the use of diagnostic technologies and the development of a diagnostic reasoning as it applies to patient management of the acutely ill and injured. Emphasis is placed on development of competence to perform a comprehensive history and decision making for the management of acutely ill patients.
Taught by: Becker; Griffith; Bartke
Course usually offered in fall term
Prerequisites: NURS 607, 657
Activity: Lecture
1 Course Unit

NURS 768 Role of the Clinical Nurse Specialist
This clinical course provides students the opportunity to apply CNS theory to practice and enables students to develop strategies to overcome barriers to safe, quality healthcare delivery. Students acquire knowledge and skills characteristic of CNS practice particularly as it relates to clinical judgment, facilitation of learning, advocacy and moral agency, caring practice and response to diversity.
Taught by: Becker, Pawlow; Fisher
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 769 Clinical Nurse Specialist Clinical I
This clinical course provides students the opportunity to apply CNS theory to practice and enables students to develop strategies to overcome barriers to safe, quality healthcare delivery. Students acquire knowledge and skills characteristic of CNS practice particularly as it relates to clinical judgment, facilitation of learning, advocacy and moral agency, caring practice and response to diversity.
Taught by: Becker, Dubendorf; Muller
One-term course offered either term
Prerequisite: NURS 657
Corequisite: NURS 768
Activity: Lecture
1 Course Unit

NURS 770 Clinical Nurse Specialist Clinical II
This clinical course focuses on the application of CNS theory to practice. Students focus on furthering the development of the knowledge and skills related to the core competencies of the CNS. Strategies to improve provider and system issues related to the provision of care to the population of interest are developed, implemented and evaluated. Developing leadership in the development of system-wide or healthcare policy is promoted. Advocating for the individual, family, caregiver and population of interest needs within the context of clinical practice and policy making is encouraged.
Taught by: Becker; Dubendorf; Muller
Course usually offered summer term only
Prerequisites: NURS 657, NURS 768, NURS 769
Activity: Lecture
1 Course Unit
Notes: Also Offered in Summer 12 Week Session
**NURS 775 Post-Masters Psychiatric Mental Health NP Clinical Practicum & Seminar**
This clinical course prepares individuals who have completed a Psychiatric Mental Health Clinical Nurse Specialist or an Adult Psychiatric Mental Health Nurse Practitioner program to meet the clinical requirements for certification as a Family Psychiatric Mental Health Nurse Practitioner. This clinical practicum and seminar will complement previous education in advanced practice Psychiatric Mental Health nursing. The focus of the course is on skill development in therapeutic relationships with clients, interviewing, assessing client strengths and needs for mental health services, selecting and implementing interventions including psychopharmacologic agents, and maintaining a role in a mental health setting which allows active collaboration with other health professionals. A minimum of 16 precepted practicum hours per week is required in a selected community or institutional setting and a minimum of 250 total precepted clinical hours during the semester is required. In addition, there will be on-campus seminars and individual and group supervision conference calls throughout the semester.

Taught by: Cacchione; Josey; Mulligan; Leahy
Course usually offered summer term only
Prerequisites: Masters degree in Psychiatric Mental Health Advanced Practice Nursing and approval of Program Director
Activity: Seminar
1 Course Unit
Notes: By Permission Only

**NURS 776 High Risk Neonate Theory II**
This course examines specific pathophysiological mechanisms which may result in body system failure. Strategies for clinical management are examined based on a synthesis of biological, behavioral, medical, pharmacological, and nursing knowledge. Theoretical analysis of the roles of the advanced practitioner with critically ill patients is emphasized.

Taught by: Verger; Steele
Course usually offered summer term only
Prerequisites: NURS 731, 733
Corequisite: NURS 777
Activity: Lecture
1 Course Unit

**NURS 777 High Risk Neonatal Clinical II**
This clinical course is designed with emphasis on continued development of advanced clinical skills in the care of critically ill children. Emphasis is placed on integration of the roles of the advanced practitioner. This course adds to the student's previous knowledge and skills in advanced practice and prepares them to manage care of critically ill children.

Taught by: Verger; Steele
Course usually offered summer term only
Prerequisites: NURS 731, 733
Corequisite: NURS 776
Activity: Lecture
1 Course Unit

**NURS 778 High Risk Neonatal Clinical III**
This clinical course is designed with emphasis on continued development of advanced clinical decision-making skills in the care of critically ill children. Emphasis is placed on knowledge and skills that allow the advanced practitioner to efficiently and effectively manage children who are dependent upon or assisted by technological devices to carry out life processes.

Taught by: Verger; Steele
Course usually offered summer term only
Prerequisites: NURS 776, 777
Activity: Lecture
1 Course Unit

**NURS 780 Health Care of Women and Primary Care**
The focus of this course is a clinical approach to primary care problems commonly encountered by women in an ambulatory setting. This course provides the women's health care nurse practitioner and midwifery student with the knowledge and problem solving approach to assist individuals with the most common health problems, including acute episodic illness as well as stable chronic disease. The concepts of health promotion and health maintenance are integrated throughout the curriculum.

Taught by: Grube; Nagtalon-Ramos
Course usually offered summer term only
Corequisite: NURS 657
Activity: Lecture
1 Course Unit

**NURS 781 Well Women Health Care, Theory**
This course focuses on the management and evaluation of physical, emotional, socio-cultural and educational needs of gynecologic primary health care of women from adolescence through post-menopausal years. The content is directed at expanding the expertise of the student in meeting the primary women's health care needs in contemporary society. Social influences that have an impact on women's lives are also explored.

Taught by: Durain; Grube; Nagtalon-Ramos
Course usually offered in fall term
Prerequisites: NURS 607, 657, 780
Corequisite: NURS 782
Activity: Lecture
1 Course Unit

**NURS 782 Well Women Health Care, Clinical**
This clinical course further prepares students in understanding and developing the Women's Health Care Nurse Practitioner and Nurse-Midwifery roles. This clinical course focuses on the management and evaluation of physical, emotional, socio-cultural and educational needs of gynecologic primary health care needs of women from adolescence through post-menopausal years. Emphasis is placed on promoting and maintaining wellness, clinical decision making, systematic health interview, physical assessment, interpretation of laboratory findings, and diagnosis and treatment of gynecological problems.

Taught by: Durain; Grube; Nagtalon-Ramos
Course usually offered in fall term
Prerequisites: NURS 607, 657, 780
Corequisite: NURS 781
Activity: Lecture
1 Course Unit
NURS 783 Health Care of Childbearing Women, Theory
The antepartum course builds upon the well-woman health care course. The focus is management of prenatal care for the childbearing family. Conceptual threads of public policy and ethics are integrated within the content to help students to identify broader implications for prenatal care. Content includes theory and practice related to nurse-midwifery/nurse practitioner management of the normal pregnant woman, and nurse-midwifery/nurse practitioner management and strategies to reduce selected obstetric complications.
Taught by: Trout; Lewis, J.; Grube
Course usually offered in spring term
Prerequisites: NURS 781, 782
Corequisite: NURS 784
Activity: Lecture
1 Course Unit

NURS 784 Health Care of Childbearing Women, Clinical
This course focuses on the management and evaluation of the childbearing women and their families in primary care settings. The course presents the opportunity to implement the role of the Nurse Practitioner with the childbearing woman and her family. The focus is on comprehensive physical, psychosocial and educational management of women and their families during pregnancy and postpartum.
Taught by: Trout; Lewis, J.; Grube
Course usually offered in spring term
Prerequisites: NURS 781, 782
Corequisite: NURS 783
Activity: Lecture
1 Course Unit

NURS 785 Integration I
Intensive integration of theory and clinical practice in women's health care with emphasis on ambulatory care. Clinical practice in all areas of ambulatory women's health care, teaching rounds, case presentations, and seminars with professional colleagues.
Taught by: Stringer; McCool; Reale; Nagtalon-Ramos
Course usually offered summer term only
Prerequisites: NURS 783, 784
Activity: Clinic
1 Course Unit

NURS 786 Integration II: Midwifery Integration
Intensive integration of theory and clinical practice in women's health care with emphasis on intrapartum, postpartum, and newborn care. Clinical practice during the intrapartum and postpartum teaching rounds, case presentations, and seminars with professional colleagues.
Taught by: McCool; Reale
Course usually offered fall term
Prerequisites: NURS 783, 784
Corequisite: NURS 785
Activity: Clinic
1 Course Unit

NURS 787 Intrapartum / Postpartum / Newborn Care, Theory
Anatomy and physiology relevant to the care of the women and their families during the intrapartum, postpartum and newborn periods. Includes management of selected obstetrical emergencies and medical complications.
Taught by: McCool; Reale; Stringer
Course usually offered summer term only
Prerequisites: NURS 783, 784
Corequisite: NURS 788
Activity: Lecture
1 Course Unit

NURS 788 Intrapartum / Postpartum / Newborn Care, Clinical
Clinical care and management of women, newborns and their families during the intrapartum, postpartum and newborn periods. Includes management of selected obstetrical emergencies and medical complications. Clinical assignments related to module objectives.
Taught by: McCool; Reale
Course usually offered summer term only
Activity: Lecture
1 Course Unit

NURS 789 Principles of Patient Safety & Quality Improvement in Healthcare
Taught by: Gleason Scott
Activity: Lecture
1 Course Unit

NURS 790 Health Care Economics and Business Planning
Course usually offered in fall term
Activity: Online Course
1 Course Unit

NURS 792 Clinical Fieldwork in Nurse Anesthesia Practice II
This course provides the opportunity for students to integrate theoretical knowledge and research finding into practice within the clinical setting. Students progress by providing anesthesia care for patients with more complex health problems. Techniques for managing the acute pain of clients are emphasized. Anesthetic requirements as dictated by patient assessment including the surgical procedure are studied in greater depth. The student now possesses the ability to combine theories and skills in selected clinical situations. The guidance of CRNA faculty preceptors contributes to the development of the student's critical thinking.
Taught by: Magro; Lynn; Briel
Course usually offered in spring term
Prerequisite: NURS 791
Activity: Seminar
2 Course Units

NURS 795 Nurse Anesthesia Residency II
This course is the second of two residencies that provide the nurse anesthetist student the opportunity to attain competencies within the Certified Registered Nurse Anesthesia (CRNA) scope of practice. Throughout the residency, the nurse anesthesia resident will utilize appropriate clinical judgment to manage the complex medical, physical and psychosocial needs of clients in the perioperative phases. Further refinement of the patient assessment, anesthesia administration, and critical thinking skills is emphasized. Students progress by providing anesthesia care for patients throughout the continuum of health care services. The guidance of CRNA faculty preceptors contributes to the development of the independence of the CRNA student. Collaborative practice within a care team model is emphasized and the student assumes more overall responsibility for the quality of care for the patients throughout the perioperative experience, with clinical support as required.
Taught by: Magro; Lynn; Briel
Course usually offered spring term
Prerequisite: NURS 794
Activity: Seminar
2 Course Units
NURS 796 Diagnosis and Management of Adult Gerontology Acute Care Patients I
This on-line, didactic course is designed for the practicing nurse practitioner or clinical nurse specialist who seeks to gain additional knowledge and skills related to the care of adult gerontology acutely ill patients with a specific focus on cardiovascular and pulmonary systems, thoracic issues, infectious processes, wound healing and diabetes. Particular focus is placed on specific issues related to the older adult such as frailty, dehydration, loss of functional mobility, falls, and other geriatric syndromes. The basics of ECG, CXR and PFT interpretation, ABG analysis and ventilator modes are highlighted. This course examines the epidemiologic, assessment, diagnostic, management and evaluation of acutely or critically ill adults across the adult-older adult age spectrum. An evidence-based approach to nursing and medical management including pharmacologic and non-pharmacologic modalities is emphasized.
Taught by: Becker
Course usually offered in fall term
Activity: Online Course
1 Course Unit
Notes: For Streamlined Adult Gero Program Students Only

NURS 797 Diagnosis and Management of Adult Gerontology Acute Care Patients II
This online didactic course, designed for the practicing nurse practitioners or clinical nurse specialists seeking to gain knowledge and skills relative to care of adult gerontology acute care patients, focuses on the medical and surgical issues of the neurological, renal, gastrointestinal, hematological, oncologic and orthopedic systems. This course examines the epidemiologic, assessment, diagnosis, management and evaluation of acutely or critically ill adults across the adult-older adult age spectrum. An evidence-based, interprofessional team approach to the nursing and medical management of patients is emphasized.
Taught by: Becker
Course usually offered in spring term
Activity: Online Course
1 Course Unit
Notes: For Streamlined Adult Gero Program Students Only

NURS 798 Adult Gerontology Acute Care NP: Professional Role & Clinical Practicum for Primary Care Prepared Providers
This online didactic course and accompanying clinical fieldwork focuses on issues essential to the implementation of the role of the Adult Gerontology Acute Care Nurse Practitioner. Clinical fieldwork focuses on the unique assessment, diagnosis, management and evaluation of acutely, critically and complex chronically-ill adults, across the adult age continuum, experiencing acute, urgent and emergent conditions, using both physiologically and technologically derived data. Evaluating for physiologic instability and potential life-threatening conditions is emphasized. Attention is given to the typical and atypical presentation of syndromes and constellation of symptoms exhibited by adults and older adults experiencing complex acute, critical and complex chronic illness. Issues related to the transition of patients through the health care system are explored. Collaboration between the nurse practitioner, patient, family and interprofessional healthcare team are encouraged.
Taught by: Becker
One-term course offered either term
Prerequisite: NURS 796 completion
Activity: Online Course
1 Course Unit
Notes: For Streamlined Adult Gero Program Students Only

NURS 799 MSN Clinical Remediation
Students whose clinical performance would benefit from additional clinical exposure in order to demonstrate the expected competencies are, with course faculty and faculty advisor approval, eligible to register for NURS 799. This experience will be allotted no more than one credit unit and must be completed in a time frame not to exceed one academic semester. A course may be remediated only one time.
Course not offered every year
Activity: Clinic
1 Course Unit

NURS 800 Dissertation Seminar I
Advanced study and research in nursing leading to the completion of the dissertation proposal.
Taught by: Bowles, K.; Lake
Course usually offered in fall term
Prerequisites: NURS 750, 753, 754, 813, 2 semesters of Statistics, plus six concentration courses
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 803 Clinical Scholars in the Discipline of Nursing
This 2-semester course is designed to enhance the understanding of the practice of nursing as an intellectual discipline for doctoral students who have limited clinical practice experience prior to pursuing the PhD. It consists of individualized clinical experiences that are integrally related to the student’s area of research interest and which are facilitated by clinician guides in a variety of settings. Students actively participate in seminars that focus on examining the health needs of individuals and vulnerable patients, the praxis of nursing and its place within the complex health care delivery system, health policy and society at large. Research informing practice and practice informing research are highlighted using the clinical practice experiences as case exemplars. NURS 803 is a course designed specifically for two groups of PhD students: the Hillman Scholars in Nursing Innovation and post-baccalaureate students completing an MS in passing who have limited clinical experience as a professional nurse. This course is designed to expose students to carefully selected clinical experiences that provide opportunities to build a clinical appreciation of the practice of nursing as an intellectual discipline, to gain an enhanced understanding of the health care delivery system, and to examine the intersection of research, policy, and practice at the frontlines of nursing practice. To this end, this course combines the clinical experiences with a weekly seminar facilitated to dissect common issues experienced by vulnerable patients and families across care settings and specialties, to critically examine the contributions of nursing science to that care, and to examine how the health care system contributes or detracts from optimal care.
Taught by: Clinican Educators from the Standing Faculty
Two terms. student must enter first term.
Prerequisite: Selection as a Hillman Scholar in Nursing Innovation or at the recommendation of the student’s PhD academic advisor
Activity: Seminar
2 Course Units
Notes: First Fall-Spring post-BSN semesters in the PhD program for Hillman Scholars
NURS 811 Historical Thought in Nursing
A seminar open to enrolled doctoral students who plan to conduct historical research as some aspect of their program. Meets for one semester on a schedule determined by participants and faculty.
Taught by: Fairman
Course usually offered in spring term
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 813 Qualitative Paradigm Empirical Nursing Research
Study of selected qualitative paradigm empirical research approaches, including design and methodology. Critique of selected qualitative research reports from the literature of nursing and related disciplines. Fieldwork exercise and research proposal required.
Taught by: Deatrick
Course usually offered in fall term
Prerequisite: NURS 750
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 814 Doctoral Seminar: Ethics and Nursing
A critical review of the theoretical and empirical literature dealing with bioethics, nursing ethics, moral development, women's ethics and specific ethical concerns in health and illness care. Students will study topics related to their own interests/needs, guided by the instructor in relation to the discipline of ethics.
Taught by: Deatrick
Course offered spring; odd-numbered years
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 817 Theoretical Perspectives of Growth and Development: A Health Care Perspective
This seminar will explore issues related to the theoretical perspectives of growth and development during childhood. Areas of emphasis will include: methodological issues related to research of childhood growth and development, the analysis of developmental data, and measurement issues common to research of development. Included in the discussion will be an analysis of theories in relationship to research of childhood development. The seminar will conclude with an agenda for future directions of research of growth and development.
Taught by: Medoff-Cooper; Deatrick; Lipman; O'Sullivan
Course usually offered in fall term
Activity: Seminar
1 Course Unit

NURS 818 Families and Research
This seminar will explore issues related to research of families. Included in the ongoing discussion will be an analysis of nursing and other theories in relationship to research of families. Methodological issues related to research of families will be discussed, as will the analysis of family data and measurement issues common to research of families. The seminar will conclude with an agenda for future directions to research of families.
Taught by: Deatrick
Course offered spring; even-numbered years
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 819 Seminar on the Social History of Nursing
This course will involve a guided review of the pertinent literature relating to the history of technology in 20th century America. The focus will include a critical examination and review of the social origins and implications of technological development and diffusion in healthcare. Various theoretical frameworks in the history of technology will be closely examined in attempt to assist the student in the development of their own framework.
Taught by: Fairman
Activity: Seminar
1 Course Unit
Notes: For doctoral students in nursing

NURS 821 Proseminar in Health Outcomes Research
This the first of a two-course sequence designed for doctoral students interested in conducting health outcomes research. The first course (821) focuses on conceptual, methodological, statistical, feasibility and data issues central to the conduct of health outcomes research; the second course (822) focuses on applying health outcomes research through the development and implementation of a research project. In the first course Penn faculty researchers will use their ongoing studies to illustrate how study design, sampling, measurement, and advanced statistical techniques can be employed to address the various challenges inherent in health outcomes research. In the second course, students will design and implement a health outcomes research project.
Taught by: Lake; Aiken
Course offered spring; odd-numbered years
Prerequisites: Prior coursework at undergraduate or masters level in statistics and quantitative methods.
Activity: Seminar
1 Course Unit
**NURS 823 Designing Interventions to Promote Health and Reduce Health Disparities**
Advanced analysis, design and evaluation of interventions to promote health and reduce health disparities with a focus on underserved vulnerable minority or ethnic populations, through culturally competent research, education and clinical practice. Areas to be evaluated include:
- Health disparities as it relates to health promotion and disease prevention behavioral intervention research in vulnerable communities
- Concepts of marginalization, race, ethnicity, class, gender and culture as it relates to health disparities
- Social-psychological theoretical and research approaches related to developing culturally congruent health promotion interventions to reduce health disparities for vulnerable populations
- The use of elicitation, focus groups and ethnographic techniques to tailor health behavior theory to meet the needs of the population
- Culturally competent research methodologies, involving education and/or clinical practice, e.g. culturally competent measures, recruitment, retention, and informed consent in hard to reach populations
- Community participatory research as a strategy for working with the community to build research partnership and build capacity for sustained health promotion initiatives
Health promotion intervention strategies for reducing health disparities in vulnerable communities
- Strategies to evaluate the effectiveness of interventions using randomized controlled trials (RCTs) in community and clinical settings
- Strategies for tailoring successful evidenced-based health promotion interventions to a variety of different populations for use in clinical trials and community settings
- Examine approaches for the translating and disseminating evidenced-based intervention research

Taught by: Jemmott; Teitelman
Course offered spring; odd-numbered years
Activity: Seminar
1 Course Unit
Notes: Doctoral Students Only

**NURS 824 Health Equity: Conceptual, Linguistic, Methodological, and Ethical Issues**
The course focuses on advanced analysis and evaluation of theories, concepts, and methods related to health equity. Topic areas include models and frameworks of health equity; linguistic choices related to equity, disparity, and vulnerability; role of economics, class, gender, sex, sexuality, race, and ethnicity; health equity in special populations; and issues in health policy, research ethics, and research methods. Emphasis is on advanced discourse and analysis of health equity theory and research.

Taught by: Sommers
Course offered fall; odd-numbered years
Activity: Seminar
1 Course Unit
Notes: For PhD Students Only

**NURS 825 Seminar on Integrative Science in Aging**
This fall semester interprofessional seminar will prepare students and fellows to identify appropriate measurement tools for use in aging research. We will specifically focus on analysis of selected concepts, models and measures central to the integrative science in aging. Topics include measurement of geriatric syndromes, models commonly used in integrative science of aging, outcomes of evidence-based care in older adults, regulatory and ethical issues specific to the conduct of research with older adults.

Taught by: Cacchione; Ersek
Course usually offered in spring term
Activity: Seminar
1 Course Unit
Notes: For Doctoral Students Only

**NURS 826 Advanced Qualitative Research Methods**
The course extends beginning qualitative research methods skills to a more advanced level. Students planning a dissertation or career focus in qualitative or mixed methods may use the course to refine interest and skill. The focus of the course centers on interactionist perspectives and collective analysis though methods tangential to these perspectives. Standpoint and participatory methods and analysis may be considered given sufficient student interest. Students are actively involved in selection and critique of seminal and critical readings. Students must have at their disposal a suitable dataset with commensurate permissions or have plans to collect qualitative data amenable to analysis during the course term. This data base can be from previous research proposals and fieldwork can be used as the building blocks for the course assignment(s). The course will focus on data collection, analyses, interpretation, and presentation of results. Skill building will center on collection and management of data; analytic technique including comparative, narrative, and text analysis; development and management of coding schemas; abstraction and development of situation specific theory; and dissemination and diffusion of findings, theories, and relevance to similar phenomena and use in practice.

Taught by: Kagan
Course usually offered in spring term
Activity: Seminar
1 Course Unit
Notes: For Doctoral Students Only

**NURS 827 Self-Care of Chronic Illness**
This course introduces the history, definitions, predictors, measurement, and outcomes of self-care in chronic illness. Historical, classic and current literature from various disciplines will be studied to give students a broadened perspective of the self-care construct and the issues that patients face when dealing with chronic illness.

Taught by: Riegel
Course not offered every year
Activity: Seminar
1 Course Unit
Notes: For PhD Students Only
NURS 828 Response to Chronic Illness: Theory and Research
Millions of people of all ages live with chronic illness(es). A diagnosis of a chronic illness is a life-changing event, causing disruption and a sense of loss for many. Common early responses are stress, anxiety, depression, fear, and anger. Over time, with support and experience with the illness, many adjust. But, others report persistent feelings of loss due to physical, emotional, spiritual/existential, social, occupational, and/or financial influences of chronic illness. Those who adjust the best typically find a way to return a sense of normalcy to their lives. Loved ones and caregivers are equally affected by chronic illness and much has been written in recent years about caregiver burden. However, some individuals (caregivers and patients) report positive responses to illness, including a deepened purpose for living and a reordering of life priorities. The focus of this course is on individual responses to chronic illness—the person diagnosed and his/her loved ones. This course is intended to complement N818, which focuses on families and dyads dealing with chronic illness. In this course we will explore the major theoretical perspectives that underlie this field. The literature describing common responses of both those diagnosed and their loved ones as well as the social and cultural context that helps explain the responses of individuals facing chronic illness will be examined. Methods used to study chronic illness will be explored in depth.
Taught by: Riegel
Course usually offered in fall term
Prerequisite: Permission of faculty
Activity: Seminar
1 Course Unit

NURS 829 Measurement of Physiologic Variables Related to Health Outcome Disparity
This graduate course is an advanced exploration of biometric methods (branch of science that includes the measurement of physiological variables and parameters) and their use in quantitative research. A particular focus will be on biological measures that can be used as outcome variables to evaluate interventions to promote health and health equity, and reduce health outcome disparities in vulnerable or marginalized populations. Areas to be evaluated include:* Measurement theory and instrument science as they relate to biological signals; role of biometrics in health outcomes disparity research* Ethical considerations and how they relate to biometrics; mitigating perceived threats (profiling, stereotyping); the role of human subjects considerations; the responsible conduct of research* Derivation and types of biologic signals; time-based characteristics* Accuracy and precision of biologic measures; random and non-random error; application and exemplars of strategies to determine accuracy and precision* Role of biological rhythms in biometric measurement; analysis of multiple data points and repeated measures of biological variables* Methods relative to vulnerable women, children, and families: genetics; environmental contaminants; digital image analysis; hormones, metabolites; drugs and alcohol
Taught by: Sommers
Course offered fall; even-numbered years
Activity: Seminar
1 Course Unit

NURS 830 Conducting Research in Global Women’s Health
An introduction to theoretical and methodological issues as they relate to conducting research in global women’s health. Advanced analysis of historical, social, cultural, economic, political, technological and geographical contexts as they influence the health of girls and women across the lifespan and their relation to health care systems as both clients and providers. This includes contextual issues that constrain the provision & receipt of adequate healthcare. A critical examination of theoretical and methodological issues pertaining to research on women and girls conducted around the world across disciplines. A focused and intensive exploration of place as it pertains to women and girls formal and informal structors of health care delivery as those needing and/or seeking health care, and as those providing health care to others. Students will examine the multiple dimensions and qualities of these endeavors (e.g. activity, power, control, visibility, value, and remuneration) and the intersection of gender and health - locally, globally and across borders. Students will focus their examination on the implications of seeking and providing health care for women’s and girls’ health and well-being. By examining issues in local and global contexts and across geographical boundaries, students will have the opportunity to challenge gendered, class, political, and cultural assumptions related to women’s health.
Taught by: Teitelman
Course usually offered in fall term
Prerequisites: Completion of course in global health (this may include a reputable online course eg: Coursera), or equivalent background (eg. global health field experience). Permission of Instructor.
Activity: Seminar
1 Course Unit
Notes: For graduate and professional students from any field with an interest in global women’s health; Masters students by permission of instructor.

NURS 831 Advanced Topics in Health Informatics
This course is designed to survey a broad range of advanced topics in the field of health informatics. Course faculty and invited speakers will provide the content for weekly meetings conducted in a blended environment (both on-line and in the classroom). Each week, students will listen to a lecture and then participate in a group discussion. Approximately half of these lecture/discussion sessions will take place in a “live” classroom, while the remainder will be available asynchronously in an online setting (i.e. using Blackboard). There will be no textbook, however each speaker will provide links to web-based resources that provide either background information or further elaboration of their topic. A group of students (depending upon size of class, probably 2-3 per topic) will take the lead for each topic, communicating with the speaker and facilitating the class discussion. As a final project, these student groups will also develop a more complete web resource for their selected topic.
Taught by: Bowles
Course usually offered in spring term
Prerequisites: NURS 651, NURS 551, SYS 528, or permission of instructor
Activity: Lecture
1 Course Unit

Notes: For Pre-Doctoral and Post-Doctoral students interested in describing health disparities and developing and testing interventions in vulnerable women, children, and families.
NURS 832 Laboratory Based Biological Measures
This graduate course is an advanced, mentored exploration of biological measurement techniques used in nursing research. This course will provide an opportunity to gain a broad-based understanding of laboratory methodology, biomarkers, and translational research. Concepts of biological sample processing, storage, quality assurance and control and analysis will be covered. Laboratory measurements with a focus on genetic regulation of biomarkers related to stress, pain, and sleep/fatigue will be covered.
Taught by: Libonati; Muthukumaran
Course usually offered in fall term
Prerequisites: Biology, Chemistry, Physiology, and Permission of Instructor
Activity: Seminar
1 Course Unit
Notes: For Doctoral and Post-Doctoral students interested in biobehavioral research laboratory techniques.

NURS 833 Measurement of Health-Related Behavior and Determinants
Taught by: Karen Glanz
Activity: Seminar
1 Course Unit
Notes: This one semester seminar will provide a detailed overview of measurement of health-related behaviors and determinants of behavior. The course will cover characteristics of measures, data collection, and how to apply the science of measurement to specific health research questions. The course will emphasize how to apply the science of measurement to specific health research questions. The course will provide a detailed overview of measurement of health-related behaviors and determinants of behavior. Students will integrate concepts and topics covered in the course as they work on a measurement project in their specific area(s) of interest and engage in problem-solving with their peers. This course is intended for doctoral studentand advanced masters-level students in the health sciences.

NURS 836 Patient-Reported Symptoms & Outcomes for Clinical Research
Patient-reported symptoms and outcomes are central to health science and have assumed increasing importance in the broader research arena. The research goal, conceptual clarity of variables, participant characteristics, instrument psychometrics, degree of coarseness/specificity, and participant burden are all essential to consider in selecting patient-reported symptom and outcome measures. This course focuses on linking study needs, design considerations, theoretical concepts, empirical measures, data collection strategies, and analytic approaches to patient-reported symptoms and outcomes for clinical research. Specific symptoms and outcomes examined in detail may include functional status, quality of life, health status, well-being, sleep, fatigue, weight, pain, shortness of breath, depression, stress, and nausea but each semester will be tailored to the research interests of the seminar participants.
Taught by: Richmond
Course usually offered in fall term
Activity: Seminar
1 Course Unit

NURS 837 Web-based Research Methodology
This doctoral elective course will provide an introduction to Web-based research methods in health-related disciplines. This course will examine research methods that have been adapted to the study of human subjects through the Web. This course will have particular emphasis on quantitative and qualitative empirical methods using the Web as a data collection medium. Another important feature of this course will be intensive analysis of ethical and methodological issues conducting research through the Web. Areas to be analyzed include: types of Web-based research; advantages and disadvantages of Web-based research; vehicles (e.g. funding, mentoring) that have supported Web-based research; human subject protection issues; issues/concerns in recruitment and data collection in Web-based research; and professional vehicles (e.g. scholarly publication, lay publications, speaking forums) that have helped disseminate the knowledge derived from Web-based research.
Taught by: Im
Course usually offered in fall term
Prerequisite: Enrollment in a Doctoral Program
Activity: Seminar
1 Course Unit

NURS 839 Mixed Methods Research
This course will focus on mixed methods research techniques including mixed methods designs, developing mixed methods research questions, data collection, analyses focusing on data integration of qualitative and quantitative data, interpretation, and presentation of results. Skill building will center on sampling, collection, and management of data; data integration techniques; data visualization, methodological rigor and reporting data including dissemination of findings. Students will complete a mixed methods "mini" proposal.
Taught by: Brawner
Course usually offered in fall term
Prerequisites: Qualitative Research Methods; Availability of qualitative & quantitative data sets.
Activity: Seminar
1 Course Unit

NURS 849 Exploring Data Science Methods with Health Care Data
The growth and development of electronic health records, genetic information, sensor technologies and computing power propelled health care into the big data era. This course will emphasize data science strategies and techniques for extracting knowledge from structured and unstructured data sources. The course will follow the data science process from obtaining raw data, processing and cleaning, conducting exploratory data analysis, building models and algorithms, communication and visualization, to producing data products. Students will participate in hands-on exercises whenever possible.
Taught by: Bowles, K; Milo
Course usually offered in spring term
Prerequisites: Students must have completed at least two, sequential graduate level statistics courses.
Activity: Lecture
1 Course Unit

NURS 851 Dnp Project I: Translating Evidence To Practice
Activity: Lecture
1 Course Unit

NURS 852 Translating Ev - Prac II: Dnp Project II
Activity: Lecture
1 Course Unit
NURS 853 Translating Ev- Prac III: Dnp Project III
Activity: Lecture
0.5 Course Units

NURS 854 DNP Project IV
Course usually offered in fall term
Activity: Lecture
1 Course Unit

NURS 858 Professional Aspects & Leadership For Nurse Anesthesia Practice
Course usually offered summer term only
Activity: Lecture
1 Course Unit

NURS 890 Nursing Doctoral Teaching Residency
The purpose of this required one semester teaching residency is to enhance the expertise of students in the role of educator. The residency will be tailored to the student's individual learning needs. At the minimum, students with no or minimal prior teaching experience will gain a beginning level of expertise in course planning, course evaluation, dealing with difficult student situations, test construction, paper assignment construction and grading, content delivery methods, as well as other aspects of the faculty teaching role. Students with more extensive teaching experience will tailor their residencies with their residency supervisor to enhance their expertise in these various areas.
Taught by: Designated Member of the School of Nursing Grad Group
Course usually offered in fall term
Activity: Independent Study
1 Course Unit
Notes: For Nursing Doctoral Students Only

NURS 897 Nursing Doctoral Research Residency
The purpose of this required one semester research residency is to enhance student research training early in the doctoral program by providing a mentored research experience. The residency is designed to be a tailored hands-on experience to provide students with exposure and the opportunity to participate in one or more aspects of an ongoing research project. Research residencies are experiential activities designed to meet the student's individual learning needs. At the minimum, students with no or minimal prior research experience will gain a beginning level of experience on a variety of components of an ongoing research project. Students with more extensive research experience will tailor their residencies with their residency supervisor to enhance their expertise in these various areas.
Taught by: Designated Member of the School of Nursing Grad Group
Course usually offered in fall term
Activity: Independent Study
1 Course Unit
Notes: For Nursing Doctoral Students Only

NURS 900 Directed Study
Must be arranged with the written permission of the sponsoring faculty member prior to registration.
One-term course offered either term
Activity: Independent Study
1 Course Unit

NURS 995 Dissertation
Dissertation General Tuition
One-term course offered either term
Activity: Dissertation
1 Course Unit