Clinical settings also require us to run a criminal background check. Screenings as may be required by the program. It is the responsibility of tuberculosis screening (PPD); positive titres for MMR, varicella, and certification in cardiopulmonary resuscitation (CPR); recent negative School of Nursing’s Clinical Placement Office, includes verification of participate in clinical courses. Clinical clearance, managed by the examination (this may be done by the student’s own healthcare provider).

All students must receive a health clearance from University Health Special Requirements
understand the complexities of health and illness across the life span. Topics include health risk, behavioral change, lifestyle analysis, the choices that lead to a high level of physical, emotional, and spiritual well-being. Explores the concept of wellness and examines behaviors and lifestyle connections with the faculty and students in the college.

The mission of the Northeastern University School of Nursing is to educate our students to provide evidence-based, culturally and linguistically competent, ethical healthcare that is high quality, safe, and accessible to diverse local, national, and global communities. Our programs seek to prepare students to become leaders as nurse clinicians, educators, scholars, and researchers.

Nursing is both a science-based profession and a caring art. The curriculum draws on basic and behavioral sciences, the arts and humanities, and the art and science of nursing to help students understand the complexities of health and illness across the life span.

Special Requirements

All students must receive a health clearance from University Health and Counseling Services (UHCS). Health clearance is based on specific documentation of immunity from infectious disease and a physical examination (this may be done by the student’s own healthcare provider). In addition, nursing students need a clinical clearance in order to participate in clinical courses. Clinical clearance, managed by the School of Nursing’s Clinical Placement Office, includes verification of certification in cardiopulmonary resuscitation (CPR); recent negative tuberculosis screening (PPD); positive titres for MMR, varicella, and hepatitis B; vaccines including TDAP and influenza; and additional health screenings as may be required by the program. It is the responsibility of the student to stay current and to provide documentation required for clinical clearance throughout the entire nursing program.

Clinical settings also require us to run a criminal background check. Additionally, international students require curricular practical training (CPT) clearance to meet federal requirements for all clinical and co-op experiences.

Students enrolled in the clinical courses may need access to a car to travel to assigned agencies. Students are responsible for their own transportation costs.

During academic semesters, students in the School of Nursing are required to wear the approved school uniform to their clinical site and in some clinical laboratory areas. Students are responsible for purchasing these uniforms, badges, and a lab supply pack.

In Massachusetts, and several other states, the registering board requires that graduates taking the National Council Licensuring Examination (NCLEX-RN) meet standards of “good moral character” (GMC). Students may review the GMC requirement specified at Massachusetts General Laws Chapter 112, sections 74, 74A, and 76; Licensure Policy No. 00-01 under “Rules & Regulations” on the Massachusetts BORN website; or they can similarly investigate the requirements in the state where they expect to practice.

RN to BSN Hybrid Option

The Bouvé College of Health Sciences School of Nursing allows qualified individuals to take the next step in their career toward becoming a baccalaureate-prepared registered nurse. The RN to BSN program offers a comprehensive clinical curriculum where students are exposed to all nursing specialties and aspects of nursing leadership. Program participation may be completed on a part-time or a full-time basis depending on preference. For more information, contact the School of Nursing program call center at 888.206.6004.

Programs

Bachelor of Science in Nursing (BSN)

• Nursing [link](http://catalog.northeastern.edu/undergraduate/health-sciences/nursing/bsn)
• Accelerated Program for Second-Degree Students [link](http://catalog.northeastern.edu/undergraduate/health-sciences/nursing/accelerated-second-degree-students-bsn)
• RN-to-BSN [link](http://catalog.northeastern.edu/undergraduate/health-sciences/nursing/rn-to-bsn)

Courses

Nursing Courses

NRSG 1000. College: An Introduction. 1 Hour.
Provides an introduction to the University, college, and health professions to enhance students’ understanding of self and the decisions they make academically and socially as members of the University’s diverse, multicultural community. Group activities and individual assignments along with active participation in a learning community help students adjust to life on an urban campus, develop a better understanding of the learning process, acquire essential academic skills, and make connections with the faculty and students in the college.

NRSG 1205. Wellness. 4 Hours.
Explores the concept of wellness and examines behaviors and lifestyle choices that lead to a high level of physical, emotional, and spiritual well-being. Topics include health risk, behavioral change, lifestyle analysis, the life cycle, and stress management through self-analysis.
NRSG 1206. Wellness Abroad. 4 Hours.
Explores wellness as both a concept and a self-care experience. Introduces theories and models of holism, wellness, stress, health promotion, health belief, and change as frameworks by which the student may learn to reflect upon personal behaviors and lifestyle choices that influence health and well-being. Topics include lifestyle analysis, health risk, behavioral change, and stress/stress-reduction comparisons across cultures. May be repeated without limit.

NRSG 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

NRSG 2000. Professional Development for Co-op. 1 Hour.
Introduces the Bouvé Cooperative Education Program. Offers students an opportunity to develop job-search and career-management skills. Students perform assessments of their workplace skills, interests, and values and discuss how they impact personal career decisions. Offers students an opportunity to prepare a professional-style résumé, learn proper interviewing techniques, and gain an understanding of the opportunities available to them for co-op. Introduces career paths, choices, and career decision making. Familiarizes students with workplace issues relative to their field of study and presents the MyNEU COOL database in the job-search and referral process. Presents and discusses co-op policies, procedures, and expectations of the Bouvé Cooperative Education Program and co-op employers.

NRSG 2206. Global Perspectives in the Science and Practice of Mindfulness. 4 Hours.
Offers students an opportunity to explore theoretical, practical, and clinical applications of mindfulness in a variety of situations. Presents the theoretical underpinnings through text as well as through dialogue with peers, practitioners, and clinicians in the field. Practice includes a daily exploration of embodied learning experiences. Clinical site visits seek to deepen the student’s comprehension of the practice applications of mindfulness in health, illness, and healing. Reflection and reflexivity frame inquiry into the inner and outer worlds of the student’s lived experience as a global citizen. Major topics include stress reduction, focused attention, cultural intelligence, and intercultural communication. Taught abroad. May be repeated without limit.

NRSG 2210. Influences on Health and Illness: A Nursing Perspective. 3 Hours.
Offers a context within which students have an opportunity to begin to understand, develop, and nurture a professional nursing identity. Through situated learning within a model of whole-person care, the student may utilize clinical imagination and reasoning to explore culturally mediated behaviors and meanings that are ascribed to health and illness experiences across the life span. Empirical, personal, ethical, and aesthetic ways of knowing create a framework for personal reflection and reflexivity. Integrated learning strategies guide the beginning student’s study of communication and relationships with patients, families, and providers. Guiding course principles include foundations of the nursing profession, nursing self-care and well-being, compassionate care, social justice, and quality and safety.

NRSG 2220. Nursing Interventions, Assessment, and Community Care. 4 Hours.
Introduces the concepts of wellness and caring and application of the nursing process as the framework for providing holistic and quality nursing care to clients. Explores with students the professional role of the nurse and ethical, cultural, spiritual, social, psychological, developmental, gender, community-based, and physical considerations in meeting client health needs and promotion of health. Develops health-assessment and nursing skills through nursing theory, rationales, critical thinking, and evidence-based knowledge.

NRSG 2221. Lab for NRSG 2220. 1 Hour.
Introduces and facilitates the student foundation and mastery of beginning assessment techniques and nursing skills for application to nursing practice and delivery of safe care of clients. Offers students an opportunity to engage in learning through demonstration and supervised practice of skills. Additional opportunities for students to enhance quality care practice, communication techniques, and critical thinking and reasoning skills are delivered in a center for simulation client care experiences. The Electronic Medical Record systems enables students to gain knowledge and practice in documentation of client health care, effective communication, and interprofessional collaboration for improved client outcomes.

NRSG 2300. Pathophysiology. 3 Hours.
Reviews human physiology related to oxygenation, nutrition, elimination, protective mechanisms, neurological functions, endocrine functions, and skin integrity. Explores how the human body uses its adaptive powers to maintain equilibrium and how alterations affect normal processes. Examines disease processes and implications for nursing practice.

NRSG 2306. Nursing with Acutely Ill Adults and Families. 4 Hours.
Focuses on the therapeutic nursing interventions used to restore health to adults who are experiencing acute and/or complex health problems. Analyzes deviations from health with attention to the implications for the individual and the family in coping with health problems. Analyzes the client’s healthcare needs and the resources to meet them, in collaboration with the client and health providers. Discusses ethical and legal dimensions of nursing care of adults. Emphasizes discharge planning and teaching. Includes clinical learning experiences in a variety of settings.

NRSG 2307. Clinical for NRSG 2306. 4 Hours.
Accompanies NRSG 2306. Covers topics from the course through various activities.

NRSG 2310. Nursing Adults in the Community. 1 Hour.
Emphasizes the promotion of health in adults and includes common health problems of adults at critical life stages, from the young adult to the frail, elderly years. Analyzes potential and actual health-risk factors and the discovery of risk-reduction strategies by applying the nursing process to the care of adults living within families and communities. Enables students to use health education and teaching methods in assessing and intervening therapeutically to meet the primary healthcare needs of adults. Assesses the role of the nurse in partnership with the family and community in disease prevention. Includes clinical learning experiences in a variety of settings.

NRSG 2311. Clinical for NRSG 2310. 1 Hour.
Accompanies NRSG 2310. Covers topics from the course through various activities.

NRSG 2312. Pathophysiology. 4 Hours.
Reviews human physiology related to oxygenation, nutrition, elimination, protective mechanisms, neurological function, endocrine function, and skin integrity. Explores how the human body uses its adaptive powers to maintain a steady state and how alterations affect normal processes. Examines disease processes and implications for nursing practice.

NRSG 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.
NRSG 3302. Nursing with Women and Families. 3 Hours.
Emphasizes the promotion of health for childbearing women and their families. The nursing process provides the framework for students to assess and therapeutically intervene in promoting healthy childbearing and health during the life span. Self-care and empowerment are an integral focus in examining women’s health from a developmental perspective. Examines the nursing role of the professional nurse in the context of concepts of human development of individual, family, and community. Discusses the effects of cultural, social, economic, and ethical influences and the impact of healthcare technology.

NRSG 3303. Clinical for NRSG 3302. 2 Hours.
Focuses on applying the theories, principles, and concepts studied in NRSG 3302 to providing nursing care for women and their families with a focus on the childbearing family.

NRSG 3320. Nursing Care of Adults 1. 4 Hours.
Focuses on the care of adults experiencing common health problems. Builds on the conceptual foundation learned in sciences, nursing practice, physical assessment, pharmacology, nutrition, and growth and development. Emphasizes the acute care of adults and application of the nursing process. Explores expanding concepts of health and illness, including management of patients transitioning from acute care to the home or rehabilitation settings.

NRSG 3321. Clinical for NRSG 3320. 2 Hours.
Emphasizes clinical skills that focus on the application of knowledge learned in NRSG 3320.

NRSG 3323. Intermediate Interventions and Assessment. 1 Hour.
Focuses on principles and concepts that support nursing assessment and the performance of advanced nursing skills in the adult patient. Discusses health assessment, nursing interventions, and communication techniques that support clinical decision making within the nursing process framework. Emphasizes critical analysis of the appropriateness and accurate performance of nursing interventions to ensure the provision of safe quality care. Covers the delivery of culturally competent care and the professional development of the nurse as an interprofessional team member.

NRSG 3324. Lab for NRSG 3323. 1 Hour.
Introduces the practice and application of advanced nursing skills, health assessment, and communication techniques studied in NRSG 3323. Offers students an opportunity to develop and master advanced assessment and intervention skills by supervised practice and demonstration. Participation in simulated patient care experiences is designed to enable the student to engage in clinical reasoning based on patient interaction and assessment that leads to the identification of appropriate nursing interventions.

NRSG 3400. Nursing and the Promotion of Mental Health. 3 Hours.
Focuses on primary, secondary, and tertiary prevention as it relates to individuals with mental health issues. Incorporates principles of communication, with particular focus on individuals with altered patterns of communication. Helps students provide nursing care to individuals, families, and groups with a variety of mental health and mental illness-related issues. Provides students information about the spectrum of mental illnesses and about factors that predispose people to developing mental health problems. Critical thinking skills are employed to explore the legal and ethical issues of providing nursing care for mentally ill persons. Use of psychotropic drugs is integrated throughout the course as it applies to specific psychiatric illnesses. In patient and community settings are utilized as learning arenas to assist students to meet the course objectives.

NRSG 3401. Clinical for NRSG 3400. 2 Hours.
Focuses on applying the theories, principles, and concepts learned in NRSG 3400 in providing psychiatric mental health (PMH) nursing care.

NRSG 3420. Nursing Care of Adults 2. 4 Hours.
Focuses on the care of adults and their families experiencing complex physiological insults across the lifespan. Builds on the conceptual foundation established in NRSG 3320. Offers students an opportunity to improve their organizational skills through the expanding complexity of patient acuity levels and workloads in an advanced health care setting. Emphasis is on complex decision and critical thinking through collaboration and the use of evidence-based practices in high acuity and critical care settings. Seeks to help the student to conceptualize care of the ill patient from admission to discharge and beyond, as a means of holistic practice that demonstrates knowledge of prevention, promotion, maintenance, and restoration of the clients with complex health problems.

NRSG 3421. Clinical for NRSG 3420. 2 Hours.
Focuses on applying the theories, principles, and concepts covered in NRSG 3420 in providing nursing care to adults in increasingly complex situations. Builds upon clinical skills established in NRSG 3321.

NRSG 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

NRSG 4502. Nursing of the Child. 4 Hours.
Builds on developmental and family theory. Focuses on the principles of nursing care of children experiencing acute and/or complex, chronic health problems and their families. The complex health issues are analyzed within the context of the individual, family, and community. Offers students an opportunity to explore evidenced-based practices within the framework of the nursing process. The therapeutic role is addressed in partnership with the family and resources available within a collaborative and interdisciplinary environment.

NRSG 4503. Clinical for NRSG 4502. 2 Hours.
Focuses on applying the theories, principles, and concepts learned in NRSG 4502 in providing nursing care for acutely and/or chronically ill children and their families in a pediatric clinical setting.

NRSG 4602. Nursing with Vulnerable Populations Abroad. 3 Hours.
Focuses on therapeutic interventions for the community in this study-abroad course. Analyzes care of populations, individuals, and families from a nursing process, epidemiological, and prevention framework. Emphasizes the role of the public health nurse in multiple arenas of practice in the United States and countries abroad. Examines factors that contribute to vulnerability in different population groups in selected countries and costs associated with levels of prevention. Designed to enable students to understand the value and use of assessment from the point of view of human biology; maturation and aging; physiologic function; physical, psychological, and social environment; and lifestyle. Examines community-based strategies for underserved populations that live in a variety of communities, both urban and suburban, in the United States and countries abroad.

NRSG 4603. Clinical for NRSG 4602. 2 Hours.
Accompanies NRSG 4602. Covers topics from the course through various activities in this faculty-led study abroad.
NRSG 4604. Public Health Community Nursing. 3 Hours.
Introduces population-focused nursing and applies the nursing process to the community as client. Examines evidence-based health-promotion strategies in a variety of community settings. Addresses core functions and essential services of public health, and introduces epidemiological and economic concepts and models. Emphasizes the involvement of the community/public health nurse in ethical issues and health policy, focusing on vulnerable populations in giving cultural and linguistic-competent care. Examines community-based strategies and interprofessional collaboration to care for underserved populations in both urban and suburban communities. Emphasizes the community/public health nurse as a population-focused care provider, case manager, deliverer of quality nursing care, care coordinator, critical thinker, liaison between agencies, and nursing researcher.

NRSG 4605. Clinical for NRSG 4604. 2 Hours.
Seeks to facilitate the student’s socialization to population-focused nursing and to plan care for the community as client. Emphasizes the application of knowledge when addressing core functions and essential services of public health, epidemiology, and economic concepts and models. Students engage in cultural and linguistic-appropriate health assessment, health promotion, and illness-prevention strategies in a variety of community settings. This may include acting as a community/public health nurse for ethical issues, health policy, coordination of care, interprofessional collaboration, liaison between agencies, and facilitation of healthcare research. Examines and evaluates types of community-based strategies used to serve underserved and vulnerable populations to ensure quality care for those living in both urban and suburban communities.

NRSG 4610. Managing and Leading in Healthcare. 4 Hours.
Introduces various theoretical frameworks that support principles of leadership and management in nursing in all types of organizational settings. Emphasizes developing, enhancing, and demonstrating leadership skills, competencies, and aptitudes. Exposes students to practical situations in the management of current and practical patient care in diverse healthcare settings. Integrates organizational structure; methods of nursing care delivery; comparison of management and nursing processes; decision making; change; communication skills; interprofessional collaboration; team building; ethical considerations; interpersonal skills of effective nursing leadership and management; and organizational issues related to the quality of client, family, and personal outcomes.

NRSG 4611. Managing and Leading in Healthcare—An International Perspective. 4 Hours.
Focuses on the knowledge and skills related to the delivery of health services within a nursing management context. Presents theories, concepts, and models—such as managed care, organization and management, authority, delegation, resource allocation, budgeting, leadership and empowerment, change, motivation, environmental safety, quality improvement, collective bargaining, and conflict resolution—to give students an understanding of the knowledge base for the management role of the baccalaureate nurse. Provides the opportunity to apply principles and practice skills in planning and delegating nursing care using different organizational models and approaches. Discusses the developing creative role for managing and leading in nursing. Includes case-based educational learning experiences and projects. Exposes students to practical situations in various healthcare settings in the United States and the country of study. Provides a context for comparing and contrasting healthcare issues in the U.S. and the country of study. May be repeated without limit.

NRSG 4620. Innovations in Nursing Practice. 4 Hours.
Offers the student an opportunity to demonstrate professional competency and integrate the critical thinking knowledge required in nursing practice. The student has an opportunity to identify, develop, and complete a project that is mutually acceptable to faculty and an agency. The project must demonstrate the role of the professional nurse in relation to professional responsibility in a selected health context, which can be any type of healthcare setting, and must focus on leadership responsibilities to improve the quality of care and/or improve the work environment.

NRSG 4970. Junior/Senior Honors Project 1. 4 Hours.
Focuses on an in-depth project in which a student conducts research or produces a product related to the student’s major field. Combined with Junior/Senior Project 2 or college-defined equivalent for 8-credit honors project. May be repeated without limit.

NRSG 4971. Junior/Senior Honors Project 2. 4 Hours.
Focuses on second semester of in-depth project in which a student conducts research or produces a product related to the student’s major field. May be repeated without limit.

NRSG 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

NRSG 4991. Research. 4 Hours.
Offers an opportunity to conduct research under faculty supervision.

NRSG 4992. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic. Course content depends on instructor. May be repeated without limit.

NRSG 4993. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic. Course content depends on instructor. May be repeated without limit.

NRSG 4995. Comprehensive Nursing Practicum. 5 Hours.
Seeks to prepare students to synthesize nursing knowledge, skills, and experience and facilitate their transition to professional nursing practice and case management of clients with health problems. Seeks to assist students demonstrate leadership and collaborative skills in working with other members of the health-care team through a weekly precepted relationship with an RN. Includes clinical learning experiences within hospital and community settings. Classwork includes a review of professional domains in all previous clinical courses in the nursing curriculum to help prepare students for licensure.
NRSG 5100. Professional Development and Scientific Basis. 3 Hours. Serves as a transitional course for the purposes of socialization and transformation of the student to the roles and scope of practice of baccalaureate generalist nurse. Employs principles of adult learning and critical thinking to assist the student in establishing the foundational skills required for scholarly communication, investigation, and study. Examines the historical and contemporary nursing theories related to the physiological, sociological, and cultural perspectives of professional practice, focusing on the four central concepts of professional nursing: person, health, environment, and nursing. Introduces the use of evidence-based practice to drive professional practice. Offers students an opportunity to develop a portfolio based on his or her personal and unique vision of professional nursing practice.

NRSG 5101. Computer and Nursing Informatics. 3 Hours. Focuses on information and knowledge development concepts, data processing, and use of micro-, mini-, and mainframe computers in nursing practice. Introduces technologies used in nursing practice, such as hospital and nursing information system applications and decision support systems. Discusses the impact of computers and informatics on the future direction of nursing practice. Includes demonstration of computer-aided instruction, physiological monitoring devices, and applications of various software packages related to nursing practice, and the opportunity to practice computer skills.

NRSG 5102. Public Health Nursing. 4 Hours. Focuses on the knowledge, skills, and attitudes necessary for advanced nursing practice in a variety of community-based settings. Introduces biostatistics, epidemiology, and demography as the foundation sciences of public health. Examines definitions of health and illness, considering local, regional, national, and international communities. Explores nursing roles that affect the public health in the home, at work, and especially in the community. Provides opportunities in the field for experiential learning in the community.

NRSG 5103. Cultural Diversity in Nursing Practice. 3 Hours. Provides an opportunity to explore the implications of cultural diversity in advanced nursing practice. Examines and critiques selected theoretical perspectives including medical anthropology and sociology and ethnomethodological analysis. Considers the epidemiology of folk illnesses and ethnic differences in morbidity and mortality. Students examine their own cultural health/illness perceptions as a basis for comparing the perceptions of selected groups and those of the Western allographic medical model.

NRSG 5117. Advanced Pharmacology. 2 Hours. Focuses on principles of pharmacology and the major drug classifications in relation to the treatment of health problems across the life span. Examines the effects of selected medications on pathophysiology and psychopathology. Emphasizes dose response, side effects/drug interactions, route of administration, and place in clinical therapy.

NRSG 5118. Healthcare System and Professional Role Development. 3 Hours. Examines the role of the advanced practice nurse within the context of today’s healthcare system. Focuses discussion on dimensions of the advanced practice nursing role, including intra/interdisciplinary collaboration, consultation, leadership, diversity, and accountability for quality care. Examines the healthcare system with special focus on social, political, economic, ethical, regulatory, research, and legal trends. Students are expected to evaluate the interaction between healthcare system issues and advanced practice role dimensions.

NRSG 5120. Statistics for Health Science. 3 Hours. Focuses on applying formal reasoning to understand the underlying principles of statistics; how to select and conduct statistical tests; and how to interpret and use the results of data analysis in relation to research questions and research hypotheses.

NRSG 5121. Epidemiology and Population Health. 3 Hours. Examines the theoretical basis for identification and analysis of the distribution and determinants of health problems at community, national, and international population levels. Considers health disparities that exist among specific populations and the role of government in setting policies for health promotion and disease prevention. Covers three topical areas: basic principles and population measures of epidemiology; epidemiologic study methods; and application of epidemiologic tools in interdisciplinary settings. Complements planned topics with current examples of population health issues. The goal is to understand the principles and practice of monitoring population health. Skills acquired assist advanced practice nurses, other clinicians, or administrators in critically evaluating new epidemiologic literature and in using the basic tools of epidemiology to assess population health and develop strategies for monitoring health improvement.

NRSG 5125. Pathophysiology for Advanced Practice. 3 Hours. Covers content that provides current understanding of major disease processes across the life span. Builds on the knowledge of anatomy, physiology, biochemistry, microbiology, and immunology. Focuses on physiologic dysfunction; physiologic adaptation in maintaining the internal environment; and feedback mechanisms at the cellular, organ, and systems level. Seeks to provide students with a way of thinking about disease for each body system. Provides a comprehensive study of underlying concepts common to major pathophysiologic processes of the body, including specific diseases affecting the cardiovascular, endocrine, gastrointestinal, hematological, immunological, nervous, pulmonary, and renal systems.

NRSG 5127. Scientific Inquiry and Epidemiological Concepts. 3 Hours. Emphasizes methods of scientific inquiry and epidemiological concepts relative to individual and population health. Addresses multiculturalism concepts relative to health and illness. Stresses theoretical frameworks, methods of inquiry, and appropriate use of selected statistical analyses. Offers students an opportunity to analyze data to improve healthcare delivery for individuals and populations. Examines threats to internal and external validity. Emphasizes critical appraisal of literature as evidence as a basis for translation into practice. Explores strategies and tools for retrieval, compilation, critical appraisal, and application of empirical and practice-based information. Restricted to USAGPAN students only.

NRSG 5170. Statistics in Nursing. 2 Hours. Part of the USAGPAN program. This course provides students the opportunity to understand biostatistics and their application in scientific research. Students conduct a systematic inquiry relative to an identified anesthesia problem, conduct a research study, and apply the appropriate statistical measurement to analyze the data. In addition, the statistical foundation obtained from this course will enable students to critically analyze scientific literature. Restricted to USAGPAN students only.

NRSG 5172. Clinical Anatomy and Physiology 1 for Nurse Anesthesia. 6 Hours. Part of the USAGPAN program. This course provides students the opportunity to study the anatomy and physiology of the cell, muscle, nervous, and cardiovascular systems with particular reference to their applicability to anesthesia and acute care management. Students engage in critical thinking regarding the effects of anesthetics on physiological processes and its relation to their client’s state of health/wellness as it interacts with culturally diverse populations in the 21st century. Restricted to USAGPAN students only.
NRSG 5174. Clinical Anatomy and Physiology 2 for Nurse Anesthesia. 5 Hours.
Part of the USAGPAN program. This course provides students the opportunity to build upon their knowledge of the anatomy and physiology of the endocrine, respiratory, and renal systems with particular reference to anesthesia, respiratory, and acute care management. Students engage in critical thinking regarding the effects of anesthesia on the normal physiological processes of the respiratory, endocrine, and renal systems. Restricted to USAGPAN students only.

NRSG 5176. Theoretical and Research Applications in Nurse Anesthesia. 3 Hours.
Part of the USAGPAN program. This course investigates the philosophical and theoretical bases underlying concepts and operations inherent in nursing. Theories from behavioral, natural, applied, and nursing sciences are examined. Theoretical frameworks and concepts are explored as a foundation for research relative to practice of nursing anesthesia. This course focuses on the research process from problem formulation to analysis and interpretation. Emphasizes is on research designs, methods, and appropriate use of selected statistical analyses. Critique of research is also explored. Students have the opportunity to input and analyze data using SPSS. Restricted to USAGPAN students only.

NRSG 5178. Information Systems in Advanced Nursing Practice. 2 Hours.
Part of the USAGPAN program. This course focuses on the methods and tools of information handling relative to selected aspects of anesthesia nursing, healthcare, education, and research. The process of organizing, collecting, processing, and analyzing of data is explored as a basis for clinical decision-making. Automation of communication, manuscript/proposal preparation, databases, and budgeting are emphasized. The integration of Word, SPSS, Excel, Access, and PowerPoint are explored. Computer-based resources including word processing, presentation software, bibliographic software, search engines and databases are used to assist in acquisition, maintenance, and presentation of information in a scholarly format. Research findings in the use of informatics are addressed. Restricted to USAGPAN students only.

NRSG 5180. Evaluation and Application of Research in Advanced Nursing Practice. 4 Hours.
Part of the USAGPAN program. This course provides students the opportunity to integrate theory, research and practice. Students conduct a systematic inquiry relative to an identified anesthesia problem. Specifically, the students design and implement a research protocol. This process provides experience in research design, implementation, and evaluation. Students submit a manuscript of the research to a refereed journal and present either a podium or a poster presentation at national meeting. Restricted to USAGPAN students only.

NRSG 5182. Physical Examination and Differential Diagnosis. 4 Hours.
Part of the USAGPAN program. This course provides students the opportunity to refine and specialize their assessment skills with an emphasis on assessing for the presence and quantifying the severity of problems with significant implications for anesthesia care. Particular attention is paid to the importance of consulting appropriately for preoperative optimization and the development of plans for anesthesia care that minimize anesthesia related risk. Restricted to USAGPAN students only.

NRSG 5184. Biochemistry for Nurse Anesthesia. 4 Hours.
Part of the USAGPAN program. A graduate level course which provides the student an opportunity to correlate biochemical principles as they apply to the physiology, pathophysiology, and pharmacology of anesthesia nursing. Major topics covered include: (1) structure and function of DNA, RNA and proteins; (2) basic medical genetics; (3) protein structure and function; (4) common metabolic pathways of carbohydrates, lipids, and amino acids; and (5) special topics including clinical chemistry. Lectures are supplemented by case studies and clinical correlate presentations related to anesthesia. Restricted to USAGPAN students only.

NRSG 5186. Directed Study. 1-4 Hours.
Allows student to develop an individualized plan to attain specific knowledge and skills related to professional goals. May consist of library study and reading, individual instruction, research, practicum, or other appropriate activity as approved by instructor and academic adviser. May be repeated without limit.

NRSG 5976. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic. Course content depends on instructor. May be repeated without limit.

NRSG 5984. Research. 1-4 Hours.
Offers an opportunity to conduct research under faculty supervision. May be repeated without limit.