NURSING (NUR)

NUR 100. Introduction to Nursing. 3 Credit Hours.
This is an introductory course to explore the various roles and responsibilities of the professional nurse in American health care. Major issues within health care today will be discussed and the impact they have on professional nursing will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 200. Summer Scholars Program. 3 Credit Hours.
Course focuses on current health care issues and the health care system as well as future directions of health care.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 202. Introductory Statistics in Health Care. 3 Credit Hours.
Application of descriptive and inferential statistics. Principles and methods of summarizing data including tables, graphs, percentile ranks, central tendency, variability, normal distribution. Basic concepts of probability, hypothesis testing, and analysis of variance. Examples and problems from nursing and health sciences.
Corequisite: MTH 101. Or Requisite: ALEKS > or = 55 or SAT Score > or = 630 or ACT > or = 28.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 205. Personal Nutrition. 3 Credit Hours.
Principles of nutrition integrated with cultural dietary patterns across the lifespan. Not for nursing majors or minors.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 207. Introduction to Pharmacology. 3 Credit Hours.
Introduction to the basic principles of therapeutic pharmacology. Special consideration of cultural beliefs and folk medicine included. Emphasis is on the understanding of the different classes of drugs and their application in various health care settings.
Prerequisites: BIL 150, CHM 103 or CHM 111, HCS 212, and HCS 215.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 301. Human Sexuality and Vulnerable Populations. 3 Credit Hours.
The study of human sexuality via multidisciplinary theoretical perspectives and research. Students will examine the complex relationships of the physiological, psychological, cultural, gender, religious, historical, and political aspects of human sexuality. Human sexuality in the context of health disparities will form the foundation for the course. WRITING COURSE
Prerequisite: BPH 206. Or Requisite: Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 303. HIV/AIDS and Health Maintenance For Health Care Providers. 3 Credit Hours.
Definition, diagnosis, management, and care of diverse patient populations with HIV infection and AIDS. Course is presented and discussed from an interdisciplinary health care perspective.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 304. Adult Health I: Fundamentals of Nursing Practice. 6 Credit Hours.
This clinical course emphasizes the supervised application of health assessment skills, nursing process, and clinical nursing techniques in the clinical laboratory, community, and acute care settings. Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 305. Issues in Health Disparities. 3 Credit Hours.
This course will be an introduction to the general research on health systems and health disparities. Emphasis will be placed on social, biological, economic and social policy issues that impact on the health of minority populations. Concepts associated with epidemiology, poverty, racism, public policy and international politics will be explored. WRITING COURSE
Prerequisite: BPH 206. Or Requisite: Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 306. Principles of Nutrition. 3 Credit Hours.
Principles of nutrition integrated with cultural dietary patterns for client adaptation across the lifespan. Requisite: Sophomore Status or Permission of Instructor.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 307. Pharmacology. 3 Credit Hours.
Introduction to the basic principles of therapeutic pharmacology. Special consideration of cultural beliefs and folk medicine included. Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 308. Adult Health II. 8 Credit Hours.
This course focuses on the nursing management of the client throughout the adult life cycle who experiences alterations and/or adaptations in physiologic defense mechanisms. Teaching strategies to be utilized include lecture, discussion, critical thinking exercises. Requisite: Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.
NUR 310. Global Health. 3 Credit Hours.
Introduction to the concepts of global health and the critical links between public health and social and economic development. Determinants of health and patterns of disease and health outcomes across the globe are critically examined. The course reviews the determinants of health status in terms of biology, demography, epidemiology, culture, sociology, economics, and politics. Key concerns regarding reproductive health, child survival, nutrition, communicable diseases, and chronic diseases are examined. Health care delivery in developed vs. undeveloped regions of the world are emphasized.
Prerequisite: BPH 206.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 311. Theories and Concepts of Nursing. 2 Credit Hours.
An introductory nursing course explaining the philosophy of baccalaureate nursing using the major concepts of person, environment, health, and nursing with a multicultural focus. WRITING COURSE. Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 314. Health Assessment and Promotion. 3 Credit Hours.
Introduction to health and physical assessment using a lifespan approach. Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 315. Pathophysiology. 3 Credit Hours.
The study of the physiologic and biologic manifestations of disease and disease processes. Emphasis is placed on physiology of altered health within the context of disruptions of structure and function of the human body as a whole. Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 317. Theories in Growth and Development. 3 Credit Hours.
Application of growth and development theories through the lifespan with a case study approach to issues commonly encountered in clinical settings. Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 318. Women’s Health Nursing. 4 Credit Hours.
Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 319. Contemporary Issues in Bioethics for Health Care. 3 Credit Hours.
This course will cover bioethical issues in the health care environment, including ethical principles, theories and decision making strategies. WRITING COURSE.
Prerequisite: BPH 206.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 320. Child and Adolescent Health Nursing. 4 Credit Hours.
Requisite: School of Nursing and Junior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 350. Pathophysiology/Pharmacology For Rn/BSn. 4 Credit Hours.
This course presents the study of the physiologic and biologic manifestations of disease and disease processes, and introduces the basic principles of therapeutic pharmacology. Emphasis is placed on the physiology of altered health within the context of disruptions of structure and function of the human body as a whole. Special consideration of cultural beliefs and folk medicine is included.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 390. Advanced Placement Practice I for RN/BSN Students. 10 Credit Hours.
Nursing Management of the client throughout adulthood who experiences alterations and/or adaptations/maladaptions in physiologic defense mechanisms; complex alteration and/or adaptations in organ system function. The client in this course is identified as the individual, family or significant others. Course content emphasizes concepts of infection, the surgical client, immunity and altered cell growth, utilizing the nursing theories and the nursing process. Assists adult clients to adjust to multiorgan alterations/adaptations/maladaptions in the endocrine, cardiovascular, respiratory, immunological and hematopoietic, nervous, musculoskeletal, digestive, and renal urinary systems. Specific models are utilized to enhance the teaching of critical thinking. Research findings are utilized to support nursing interventions.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 400. Theories, Research and Evidence-Based Practice. 3 Credit Hours.
Course emphasis is placed on developing an understanding of the research process and application of research findings in community-based practice in multicultural settings. Course focuses on the relationship between theory, research, practice, and the development of competencies to become an informed consumer of research. Writing Credit.
Requisite: Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.
NUR 401. Evidence-Based Nursing Practice.. 3 Credit Hours.
This course examines evidence-based practice in nursing. Focuses on the research process; location, critical appraisal, and evaluation of evidence; application and evaluation of evidence-based practice changes; and quality improvement.
Requisite: Accelerated BSN Program.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

NUR 402. Global Health Disparities Research. 3 Credit Hours.
This is a 4 week intensive educational experience that prepares students to be successful conducting supervised health disparities research as part of the MHRT program at a foreign institution, disseminating findings, and applying to graduate school. The training program is broken into a preparation phase (3 weeks prior to leaving to their host country), and a dissemination phase (1 week after they return). Students will be working as a research assistant at a foreign site for eight weeks in between the preparation and dissemination phases of this training program. Students will learn about the influence of culture and healthcare policy on health and health disparities, research design, statistics, communicating research findings and careers in health disparities research.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 403. Advanced Placement Practice II for RN/BSN Students. 10 Credit Hours.
This course focuses on the nursing process in the care of pediatric clients and families, the obstetrical client, and women's health. Emphasis is on the use of the nursing process to assist clients to adapt to health alterations requiring care in secondary health care settings. This course covers care of the pediatric client and the childbearing client and women's health.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 405. Professionalism And Career Pathways. 3 Credit Hours.
This nursing course focuses on the assessment and development of a career pathway for registered nurses seeking a Bachelor's in the Science of Nursing professional nursing practice. There will be a focus on concepts of professionalism, roles in nursing, advanced practice, diversity, culture and a critical analysis of legal, ethical and political dimensions of nursing practice.
Components: DIL.
Grading: GRD.
Typically Offered: Fall.

NUR 408. Genetics And Healthcare. 3 Credit Hours.
Exploration of basic knowledge in genomics, understanding of social, cultural and psychological implications of genetic services, health prevention and promotion.
Requisite: Nursing Only.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 411. Adult Health Iii. 5 Credit Hours.
This course focuses on the adult experiencing complex multisystem alteration/adaptations in organ and system function. Emphasis is on the use of the nursing process to assist adult clients to adapt to system related insults.
Requisite: School of Nursing and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 414. Advanced Placement Practice III for RN/BSN students. 10 Credit Hours.
Content emphasizes concepts and themes of families and communities and the use of the nursing process to assist in promoting and maintaining health. The behavioral health focusses on psychotherapeutic processes across the life span Emphasis is on planning nursing care for individuals, families and groups and p rofessional and therapeutic communication skills and techniques. Explores the influence of neurophysiology and psychopharmacology on the development of psychiatric and mental health services and the evolution of the role of the psychiatric nurse.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 415. Perianesthesia Nursing. 3 Credit Hours.
The focus of this course is on the use of the nursing process to develop and implement nursing management strategies for patients and families undergoing a surgical and/or special procedure. Emphasis is placed on the use of a multicultural nursing perspective to plan and implement nursing interventions. This course highlights Perianesthesia nursing care of surgical patients.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 417. Pre-Immersion Course For Accelerated Option Students. 0 Credit Hours.
This course is designed to facilitate personal and professional success; this course introduces students to the purposes and processes of nursing. An emphasis is placed on study, communication, and critical thinking skills that support academic achievement. Students also examine the relationship between learning and motivation.
Components: DIL.
Grading: GRD.
Typically Offered: Spring & Summer.

NUR 418. Pre-Immersion For Traditional Option Students. 0 Credit Hours.
This course is designed to facilitate personal and professional success; this course introduces students to the purposes and processes of nursing. An emphasis is placed on study, communication, and critical thinking skills that support academic achievement. Students also examine the relationship between learning and motivation.
Requisite: Junior Status.
Components: LEC.
Grading: NON.
Typically Offered: Fall.
NUR 420. Robert Wood Johnson Mentor Program. 0 Credit Hours.
This seven-week immersion program will prepare students with the fundamentals of returning to an accelerated paced academic program. Students will explore topics that will prepare them in the area of academic success strategies, life preparedness and time management. This program will also serve as an introduction to the profession of nursing and enlighten participants to the many career opportunities and leadership roles available to them with a degree in nursing
Components: DIL.
Grading: NON.
Typically Offered: Spring & Summer.

NUR 424. Math Essentials For Bsn Students. 0 Credit Hours.
This course supports students with basic to advanced medical math concepts. Topics include calculating dosages, using scientific formulas and basic statistical principles.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 426. Leadership & Management in Nursing. 5 Credit Hours.
Analysis and synthesis of the application of professional concepts in a variety of multicultural health care delivery systems. Emphasis is placed on personal, professional, and organizational growth. Individualized and integrated clinical experiences are provided through direct clinical supervision by preceptors.
Requisite: Accelerated BSN Program.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 430. Leadership In Nursing. 3 Credit Hours.
Theoretical and applied concepts of transition to the nursing role within the healthcare setting are explored in this course. The focus is on practice issues and responsibilities in contemporary professional nursing practice. Emphasis is placed on the transition to practice and nursing care systems with increasing responsibility through discussion of practice theory and styles, empowering, mentoring, managing change and striving for excellence. Seminar discussion topics will focus on the issues of successful transition to the practice environment as new nurse.
Requisite: School of Nursing and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 435. Clinical Express Undgr. 5.00 Credit Hours.
This course is an online orientation for clinical faculty at the School of Nursing and Health Studies. The content is specific to clinical instructors who will be supervising BSN nursing students at various clinical sites used by the School of Nursing and Health Studies.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 440. Population Focused Nursing. 4.00 Credit Hours.
The focus is on population-focused nursing and community-oriented approaches to understanding and addressing major public health concerns across the life span. Emphasis is on assessing, planning, implementing and evaluating programs for a variety of communities both domestically and internationally. Health and disease is conceptualized as a complex interaction between individual, relationship, community and socio-economic-political level factors. Epidemiology, sociology, behavioral sciences and nursing theory and practice are integrated throughout. Special attention is given to addressing the unique needs of vulnerable populations and cultural groups, the elimination of health disparities, and social justice.
Requisite: School of Nursing and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 448. Psychiatric Mental Health Nursing.. 4.00 Credit Hours.
The focus in on psychotherapeutic processes across the life span. Emphasis is on planning nursing care for individuals, families, and communities with a variety of psychiatric and mental health problems in various settings (inpatient, outpatient, community). Professional and therapeutic communication skills and techniques are important components of this course.
Requisite: School of Nursing and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 453. Role Transition. 5.00 Credit Hours.
Theoretical and applied concepts of transition to the nursing role within the healthcare setting are integrated in this course. The course is a synthesis of previously learned knowledge, incorporating the components of physiological, psychological, and developmental concerns in the care of the client. Seminar discussion topics have a focus on the issues of successful transition to the practice environment as a nurse generalist, with the ability to exercise clinical reasoning and evidence-based practice.
Requisite: School of Nursing and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 461. Health Disparities Research Practicum. 1-4 Credit Hours.
This course is designed to provide opportunities for students across all levels of higher education to participate in health disparities research. Students will be mentored by a health disparities researcher with an active research project. Objectives will be established by the research mentor and the student according to educational level, interests and opportunities. Students will be incorporated into the research team and expected to attend project meetings. They will also be expected to participate in scholarly work that could contribute to the success of the project. Examples of scholarly work include co-authoring research papers and presentations, developing recruitment materials, assisting in compiling/developing data collection measures, or any other product deemed appropriate by the mentor.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.
NUR 487. International Health: Transcultural Nursing. 3 Credit Hours.
Collaborative clinical venture between the University of Miami, School of Nursing and an International School of Nursing. Students will exchange supervised western clinical experiences, knowledge and skills for the care of clients and families in specialty areas including Medical-Surgical, Surgery, Intensive Care and/or Emergency nursing units. This course will allow students to apply and synthesize basic science knowledge and skills that foster ethical, legal and culture specific health care.
Requisite: School of Nursing Health Studies.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 498. Selected Topics. 6.00 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 499. Selected Topics. 6.00 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 536. U.S. Health Care Crisis: Politics and Policies. 3 Credit Hours.
This course will explore key health policy issues within the U.S., along with the politics and interest groups which shape them. Fundamental concerns within the health care system such as: cost, quality and access to care will be analyzed. Major topics of discussion will include: Medicare, Medicaid, private insurance, the nursing shortage, and prescription drugs. The politics and policies surrounding issues such as bioethics, globalization, and infectious disease will also be considered.
Requisite: Junior Status, No IP Credit.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 601. Advanced Pharmacology. 3 Credit Hours.
Advanced practice nursing application of pharmacological and pharmacokinetics for the purpose of selecting appropriate drug therapies for diverse populations.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 602. Doctoral Level Orientation/Nur. 0 Credit Hours.
This course provides entering doctoral students with an evaluation of their writing ability and a review of formal writing skills. Other topics pertinent to success for nursing coursework at the doctoral level are addressed.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 603. Healthcare Databases: Design, Development And Clinical Application. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 604. System Life Cycle/Project Management. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 605. Health Information Exchange. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 606. Advanced Practice Preparation. 0 Credit Hours.
This preparatory experience provides students an opportunity to review concepts of pharmacology; physiology; and health assessment prior to beginning the Master of Science in Nursing program. Activities related to academic strategies and writing are also included, to assist in improving study and writing skills.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 607. Leadership And Professional Development Strategies For Nursing Informatics. 3 Credit Hours.
Corequisite: NUR 604.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 608. Concepts in Advanced Practice Nursing. 3 Credit Hours.
Major concepts necessary for advanced practice nursing. Included are: major scientific theories, health and health promotion, health policy, ethical issues, epidemiology, technology in health care, and advanced practice role competencies. Specific emphasis is placed on understanding culture and cultural diversity in health care.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 609. Professionalism in Advanced Practice Nursing. 2 Credit Hours.
Focuses on the synthesis of concepts and principles necessary to develop leaders in advanced practice nursing specialties. Emphasis is placed on the role of the advanced practice nurse for optimal delivery of health care to clients across the life span.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 610. Adult Gerontology Acute Care I. 4 Credit Hours.
Analysis of selected theories and conceptual models of nursing and their implementation in practice and research. Approaches to development of a scientific body of knowledge for nursing practice is included. (2) Prerequisite: Graduate status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 611. Foundations Of Anesthesia Science & Technology For Nurse Anesthetists. 5 Credit Hours.
Introduction to the application of basic sciences to nurse anesthesia. This course includes the application of principles of physics, molecular biology, biochemistry and medicinal chemistry.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
NUR 612. Physiology/Pathophysiology for Advanced Practice Nursing. 3 Credit Hours.
Analysis of physiologic and pathophysiologic mechanisms of health and illness.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 613. Advanced Health Assessment and Diagnostic Reasoning. 3.00 Credit Hours.
Emphasis on culturally sensitive comprehensive health assessment and diagnostic reasoning related to advanced nursing practice.
Special emphasis is placed on advanced health assessment; including age appropriate health screenings; prenatal, pediatric, and geriatric assessment; and interpretation of basic laboratory tests and diagnostic studies utilized in advanced nursing practice. Specialty specific seminars address issues for individual tracks within advanced practice nursing.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 614. Basic Concepts In Anesthesia Nursing. 6.00 Credit Hours.
This course is an overview of fundamental knowledge and skills for entry into advanced practice anesthesia nursing. Concepts include essential techniques, monitoring and equipment, and pharmacologic interventions for common problems and conditions requiring routine surgical procedures in a highly structured and guided clinical learning environment. Cultural competence and interdisciplinary anesthesia care across the lifespan is emphasized.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613. Corequisite: NUR 617.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 615. Professional Aspects of Anesthesia Nursing. 2 Credit Hours.
This course focuses on the development and current trends in nurse anesthesia practice, education, and research. Concepts include the historical, legal, legislative, and professional role issues associated with advanced practice anesthesia nursing. Professional responsibilities, ethical issues, diversity, cultural competency, quality assurance, continuing education, and professional involvement are emphasized.
Prerequisite: NUR 6646. Corequisite: NUR 6650.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 616. Pharmacology for Acute Care Nursing. 3 Credit Hours.
Focuses on foundational pharmacologic principles and associated application to clinical practice in acute care nursing. Integration of pharmacological concepts and interventions in safe, culturally competent, and interdisciplinary acute care advanced nursing practice are emphasized.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 617. Pharmacology For Anesthesia Nursing. 3 Credit Hours.
This course will integrate pharmacologic principles with application to clinical practice in anesthesia nursing. Integration of pharmacological, pathophysiologic concepts and the autonomic nervous system, synthesizing interventions in a safe, culturally competent, interdisciplinary anesthesia nursing practice.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613. Corequisite: NUR 614.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 619. Advanced Concepts Of Anesthesia Nursing I. 7 Credit Hours.
This course will provide an in-depth knowledge and skills of anesthesia nursing care for a variety of common problems and conditions across anesthesia specializations. Concepts include assessment, techniques, planning and pharmacologic interventions for specialty surgical procedures in a highly structured and guided clinical learning environment. Cultural competence and interdisciplinary anesthesia care across the lifespan is emphasized.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613, NUR 614, NUR 617.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 620. Advanced Concepts Of Anesthesia Nursing II. 14.00 Credit Hours.
This course will provide in-depth knowledge and skills of highly specialized problems and conditions requiring anesthesia or surgical interventions. Concepts include assessment, techniques, planning and pharmacologic interventions for regional anesthesia, pain management, care of obstetrical patients and patients with catastrophic conditions in a highly structured and guided clinical learning environment. Cultural competence and interdisciplinary anesthesia care across the lifespan is emphasized.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613, NUR 614, NUR 617, NUR 619.
Components: CLN.
Grading: GRD.
Typically Offered: Spring.

NUR 621. Diagnostics and Nursing Interventions for Acute Care Nursing. 2-3 Credit Hours.
Selected diagnostic tests and intervention techniques essential to acute care nursing. Critical thinking and decision making related to interdisciplinary assessment of acute care patients. Cultural issues related to diagnostics and intervention.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 622. Acute Care Nursing of Adults I. 4 Credit Hours.
The first of two sequential clinical practicums designed for the development of scientific knowledge and advanced practice skills in the area of acute care nursing. Involves synthesis of concepts, knowledge and skills gained in previous courses applied to the care of the acutely ill patient. Focuses on the advanced practice of acute care nursing via the nurse practitioner/clinical nurse specialist.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.
NUR 623. MATERNAL CHILD HEALTH IN PRIMARY CARE PRACTICE. 5 Credit Hours.
Theoretical and clinical bases for advanced practice nursing management of infants and children. Emphasis is placed on strategies for health maintenance and prevention of health problems and management of alterations.
Prerequisite: NUR 628.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 624. Health Care of the Aging Adult. 5.00 Credit Hours.
Development of the role of the advanced practice nurse in the health care management of the aging adult in settings ranging from primary care clinics to residential and rehabilitation including assisted living, long-term, and home care.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 625. Adult Gerontology Acute Care Ii. 7 Credit Hours.
Theoretical and clinical focus for the nurse practitioner as an advanced practice nurse in the health care management of adult populations in rehabilitative settings and residential facilities including assisted living, long term, and home care. (2:6) Prerequisite or corequisite: NUR 601.
Prerequisite: NUR 613 and 617.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 626. Advanced Concepts in Gynecological Health Care for Women. 2 Credit Hours.
Theoretical and clinical bases for the provision of complex gynecological care of women. Emphasis is on strategies for promotion of transcultural health care needs and management of alterations according to the advanced practice roles.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 627. Primary Prenatal Healthcare of Women. 1-2 Credit Hours.
Theoretical and clinical bases for providing primary prenatal care of women. Emphasis is on management strategies for promotion of transcultural health care needs according to the advanced practice role.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 628. Adult Gerontology I. 4 Credit Hours.
Theoretical and clinical bases for health care management of health alterations in the adult population. Emphasis on strategies for health maintenance and prevention of health problems, management of alterations, discharge planning and rehabilitation of individuals and aggregate population.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 630. Research Methods and Evidence-Based Practice. 3 Credit Hours.
Research process, research methods, and the analysis of data using quantitative and qualitative approaches. Focuses on understanding levels of evidence for implementing evidence-based practice and performance improvement in nursing practice and health care.
Investigates research methods associated with health disparities, access to health care, and clinical outcomes.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

NUR 631. Adult Gerontology Ii. 4-7 Credit Hours.
Theoretical and clinical bases for health management of health alterations in the adult population. Emphasis on strategies for health maintenance and prevention of health problems, management of alterations, discharge planning and rehabilitation of individuals and aggregate population.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 634. Perinatal Health Care. 6.00 Credit Hours.
Continuation of the application of physiologic, psychosocial, and cultural concepts to perinatal health care management. Emphasis is placed on nurse-midwifery management of intrapartum, postpartum, and neonatal clients.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 635. Innovation In Nursing Informatics. 3 Credit Hours.
Corequisite: NUR 633.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 636. Nursing Informatics Internship. 3 Credit Hours.
Corequisite: NUR 635.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 637. Capstone Practicum In Nursing Leadership In Informatics. 3 Credit Hours.
Prerequisites: NUR 604, NUR 607, NUR 608, NUR 630, NUR 633, NUR 636, NUR 658, CIS 450, CIS 685. Corequisites: NUR 603, NUR 605.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 638. Adult Gerontology Acute Care Iii. 6 Credit Hours.
Theoretical, clinical, and research basis of advanced practice nursing in the care and management of adults in primary care setting. (2:15)
Prerequisite: NUR 628.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.
NUR 639. Acute Care Nursing of Adults II. 7.00 Credit Hours.
The second of two clinical practicums designed to guide the development
of scientific knowledge and advanced practice skills in the area of acute
care nursing. Designed to assist the student to assume the role of the
Acute Care Nurse Practitioner/Clinical Nurse Specialist.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 640. Teaching and Learning Theory in Clinical Nursing Education. 3
Credit Hours.
This course covers principles and practices of teaching and learning
integral to clinical nursing education and identifies the role of the faculty
in teaching students with diverse learning styles and needs within a
variety of clinical settings.
Components: DIL.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 641. Methods for Clinical Nursing Education. 3 Credit Hours.
The focus of this course is the organization and management of
instruction for clinical nursing education. Emphasis is placed on effective
strategies for the development of learning opportunities in diverse clinical
settings.
Components: DIL.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 642. Evaluation in Clinical Nursing Education. 3 Credit Hours.
The course explores principles and practices of evaluation integral to
clinical nursing education.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 643. Practicum in Nursing Education. 5 Credit Hours.
The primary focus of this course is to provide opportunities to apply
concepts and principles from the previous 3 courses of the Certificate
in Nursing Education program. The course provides opportunity for
laboratory, clinical, and online application of principles of teaching and
learning. The course combines 42 hours didactic contact hours with 112
online practicum hours.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 644. Leadership and Professional Development Strategies for
Nursing. 4 Credit Hours.
In this course, students will be exposed to the principles of organizational
culture, dynamics, mission, vision, values, and goals as it impacts
nursing. Additionally they will learn current theories of change
management and resource management for nursing practice. They will
explore change agent roles in project management and processes.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 645. Interdisciplinary Anesthesia Nursing I. 14.00 Credit Hours.
This course is the integration and synthesis of advanced knowledge and
skills for interdisciplinary anesthesia nursing care. Selected topics and
clinical case studies include collaborative decision-making, effective
communication, planning and evaluation for patients with complex
problems and conditions across the lifespan. With continual guidance,
students assume greater responsibility for culturally competent and
interdisciplinary anesthesia care.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613, NUR 614, NUR 617,
NUR 619, NUR 620.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 646. Interdisciplinary Anesthesia Nursing II. 14.00 Credit Hours.
This course is the second integration and synthesis course of advanced
knowledge and skills for interdisciplinary anesthesia nursing care for
complex problems and conditions across the lifespan. With minimal
guidance students assume greater responsibility for culturally competent
and interdisciplinary anesthesia care.
Prerequisites: NUR 601, NUR 611, NUR 612, NUR 613, NUR 614, NUR 617,
NUR 619, NUR 620, NUR 645.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 647. Advanced Practice Nursing Integration. 7 Credit Hours.
Integration of the components of the Advanced Practice Nursing role to
analyze advanced practice issues.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 648. Internship. 7.00 Credit Hours.
Integration and role synthesis of Advanced knowledge and skills in nurse
midwifery care for women and infants within diverse cultural clinical
settings. Selected topics include practice management and clinical
case studies to include diagnosis, collaborative practice, planning and
evaluations of care for normal and complex conditions for the female
adolescent, reproductive age woman and infant, the mature women and
their families.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 650. INTERDISCIPLINARY ANESTHESIA NURSING III. 14.00 Credit
Hours.
This course is the third and final integration and synthesis course of
advanced knowledge and skills of interdisciplinary anesthesia nursing care.
Prerequisite: NUR 646.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
NUR 651. Qualitative Data Analysis. 3 Credit Hours.
The course is designed to help the student develop skills and understanding relating to the advanced analysis of qualitative data. The course assumes all students will either be in or nearing the analysis stages in their research. Focus is on preparation and management of text and media data for analyses; the creation and application of various types of coding to data; the distinctions in coding data evolving from different qualitative approaches; and analysis of longitudinal qualitative data. Permission required.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 652. Introduction To Clinical Inquiry I. 3 Credit Hours.
Combines clinical knowledge and hands-on clinical experience in an area of the student's potential research interest. Students will practice under the supervision of an advanced practice nurse in the specialty area. Students are expected to begin the process of identifying clinical research problems.
Components: LEC.
Grading: CNC.
Typically Offered: Summer.

NUR 653. Introduction to Clinical Inquiry II. 6 Credit Hours.
Combines clinical knowledge and hands-on clinical experience in an area of the student's potential research interest. Students will practice under the supervision of an advanced practice nurse in a specialty area. There will be a focus on health care delivery systems. Students are expected to translate clinical problems into researchable questions.
Prerequisites: NUR 652, NUR 662, NUR 665, NUR 670, NUR 674, NUR 698.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 654. The Evolution Of Nursing Practice & Application Of Theory In Nursing Practice. 3 Credit Hours.
This course is an overview of the conceptual foundations of nursing science and nursing practice. Knowledge from basic and applied sciences and ethics as well as the history of the global evolution of nursing practice are examined. Requisite: Admission to the DNP Program.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

NUR 655. Health Care Management, Economics, Financing, And Ethics. 3 Credit Hours.
This course is an overview of health care management, financing, ethics and core and advanced concepts of health care economics. This course will also examine issues associated with health care management, economics, and ethics. Requisite: Admission to the DNP Program.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 656. Global Health. 3 Credit Hours.
This course covers diverse topics that affect the health of the population and advanced practice nursing internationally. Requisite: Admission to the DNP Program.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 657. Population Based Health And Health Care Disparities. 3 Credit Hours.
This course is an overview of knowledge from nursing, public health and other disciplines for population based assessment. Population based models and frameworks from nursing, public health, and other disciplines will be explored. The importance of cultural and ethical dimensions in program development is highlighted. Prerequisites: NUR 654, NUR 656, NUR 663, NUR 664.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 658. Structure and Processes in Health Care Organization and Health Care Policy. 3 Credit Hours.
An exploration of health care organizations and healthcare policy, and how change is effected in both. Health care policy and planning to address health care disparities at the local, state, and federal levels will be explored. Organizational diagnosis, organizational change, and ethical dimension of public policy formulations and implementation will be highlighted. Requisite: Admission to the DNP Program or Permission of the Faculty.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 659. Technology In Health Care. 3 Credit Hours.
An exploration of the various aspects of the evolving technology to improve and transform health care and advanced practice nursing. This course prepares DNP nursing students to design, select and use technology to support, manage, and improve patient care and health care systems. Requisite: Admission to the DNP Program or Permission of the Faculty.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 660. Translational Science. 3 Credit Hours.
Emphasis is on translational science which includes organizational readiness and promoting change in a health care environment. Focus is on utilizing systematic analysis to identify, plan, execute and appraise best evidence on selected topics. Prerequisites: NUR 654, NUR 663, NUR 664.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.
NUR 662. Nursing Epistemology. 4 Credit Hours.
Focus on historical and philosophical perspectives in the development of knowledge and patterns of knowing with in-depth examination of the evolution of nursing science. Analysis of concepts relevant to nursing phenomena. Approaches to scientific development in nursing with emphasis on theory building and theory generation.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 663. Research I: Evaluating the Evidence for Practice. 3 Credit Hours.
This course is an analysis of evidence-based nursing practice. During the course, students acquire the knowledge base to resolve clinical practice problems and direct evidence-based practice. Requisite: Admission to the DNP Program.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

NUR 664. Research II: Biostatistical Applications For Nursing Practice. 3 Credit Hours.
This course is an overview of basic statistical concepts and computer applications related to healthcare, nursing, and biomedical research. An examination of both parametric and non-parametric statistics in program evaluation, testing and process outcomes, and/or basic research studies is included. Requisite: Admission to the DNP Program or Permission of the Faculty.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 665. Quantitative Research Methods. 3 Credit Hours.
In-depth exploration of research methods and design for quantitative research in nursing. Emphasis on development of a research problem; quantitative research design from descriptive to randomized clinical trials; epidemiologic designs; threats to validity; sampling and power analysis; measurement including psychometric theory, data collection and management; and interpretation of data. Other topics include ethics, human subjects' protection, and translation of findings into practice.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 667. Research Practicum. 1 Credit Hour.
Student participates in an ongoing research project under the guidance of a faculty member. Conducts the practical aspects of research including: IRB application/continuing reports, data collection and management. Prerequisite: NUR 665, NUR 670.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 670. Qualitative Methods In Research. 3 Credit Hours.
Exploration of inductive approaches to research and the use of qualitative methods including grounded theory, ethnography, focus group, and phenomenology. The techniques include unstructured and structured interviews. Discussion of techniques, analysis, and the ethical and political implications of special problems in qualitative research.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 671. Scientific and Theoretical Writing. 3 Credit Hours.
Introduction to the process of scientific writing including concept analysis and publication. Critique and respond to own and peers' writing. Challenges of making revisions. Synthesize relevant literature. Other topics include: impact factor, publication process, and techniques of writing.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 672. Capstone I. 3 Credit Hours.
Emphasis is on translational science which includes organizational readiness and promoting change in a health care environment. Focus is on utilizing systematic analysis to identify, plan, execute and appraise best evidence on selected topics. Prerequisites: NUR 676, NUR 688, NUR 689.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

NUR 673. Capstone II. 3 Credit Hours.
This second capstone course is the implementation and evaluation of the project developed in Capstone I. Prerequisite: NUR 672.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 674. Applied Statistics: General Linear Models (GLM), Generalized Linear Models (GZLM), and General Estimating Equations (GEE). 4 Credit Hours.
Overview of GLM, GZLM, and GEE, which combine many aspects of ANOVA/ANCOVA and multiple regression models for continuous and categorical independent and dependent variables, moderation/mediation, multiple independent variables, and repeated measures of dependent variables. Computer applications using real data and standard statistical software packages will be utilized.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 676. Practice Immersion Experience I. 12.00 Credit Hours.
This course contains individually precepted learning experiences across the spectrum of advanced practice nursing in a variety of settings. Students develop expertise within the scope of their nursing practice. Prerequisite: Admission to the DNP Program or Permission of the Faculty.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 679. Applied Statistics: Structural Equation Modeling and Hierarchical Linear Modeling. 3 Credit Hours.
Overview of structural equation modeling (SEM) and hierarchical linear modeling (HLM) for continuous, categorical, longitudinal, and nested data. Computer applications using real data and statistical software packages (Exel, SPSS, Mplus).
Prerequisite: NUR 674.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.
NUR 680. Research Ethics. 0 Credit Hours.
This is a hybrid course that addresses the ethical and responsible conduct of research, protection of human subjects, and nursing science career development.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 681. Measurement of Nursing Phenomenon. 3 Credit Hours.
Development of instruments to measure a phenomenon of concern within the domain of nursing.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 682. Advanced Practice Psychopharmacology. 2 Credit Hours.
Review of common psychoactive medications, classes, uses, effects, side effects, and prescriptive implications.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 683. Theoretical Bases for Advanced Practice Psychiatric Mental Health Nursing. 2 Credit Hours.
Review of theories and practice of individual, group and, family therapy; role of advanced practice mental health nursing, ethics, research, legislative practice.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 684. Advanced Practice Psychiatric Mental Health Nursing Therapeutic Interventions. 1-5 Credit Hours.
Assessment and treatment of persons with major psychiatric disorders.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

NUR 685. Advanced Practice Psychiatric Mental Health Nursing Preceptorship. 4 Credit Hours.
Clinical preceptorship with experience in individual, and group therapy. Includes experiences in prescribing psychoactive medications.
Prerequisites: NUR 682, NUR 683, NUR 684.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 686. Advanced Practice Psychiatric Mental Health Nursing Preceptorship 2. 5 Credit Hours.
Clinical preceptorship with experience in individual, and family therapy. Includes experiences in prescribing psychoactive medications.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

NUR 688. Health Systems Development And Leadership Practice Immersion ii. 2-12 Credit Hours.
This course contains individually precepted learning experiences across the spectrum of nursing in a variety of settings. Students develop expertise within the scope of their nursing practice.
Prerequisite: NUR 676.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 689. New Method Of Implementation-Practice Immersion Experience Iii. 2 Credit Hours.
Prerequisites: NUR 676, NUR 688.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 690. Independent Study. 1-6 Credit Hours.
A in depth study of a specified area in advanced nursing of special interest to the student, under faculty guidance.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 694. Clinical Practicum For Dnp Nurse Anesthesia. 6 Credit Hours.
This course is the clinical integration and synthesis of advanced knowledge and skills of interdisciplinary anesthesia nursing care for complex problems and conditions across the lifespan. Students assume responsibility for culturally competent and interdisciplinary anesthesia care with minimal assistance.
Prerequisite NUR 650.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

NUR 695. Clinical Practicum For Dnp Nurse Anesthesia. 6 Credit Hours.
This course is the clinical integration and synthesis of advanced knowledge and skills of interdisciplinary anesthesia nursing care for complex problems and conditions across the lifespan. Students assume responsibility for culturally competent and interdisciplinary anesthesia care with minimal assistance.
Prerequisite: NUR 694.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

NUR 696. Crafting the Dissertation Proposal. 3 Credit Hours.
The course is designed to help students focus and refine their ideas for their dissertation proposals. Focus is on developing and refining the ideas for the dissertation, and writing the introductory/review of the literature/methods chapters. The student will also begin preparation for a grant submission. During the semester, the course coordinators will assist the student in choosing a dissertation chair who will also provide input into the proposal.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
NUR 697. Selected Topics. 12.00 Credit Hours.
Subject matter offerings based upon student demand and availability of faculty. Subtitles describing topics will be shown in class schedule in parentheses after selected topic notation.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

NUR 698. Selected Topics. 6.00 Credit Hours.
The aim of this course is to provide a solid foundation in the basic statistical concepts used in conducting research in nursing. This course is an overview of basic statistical concepts and computer applications related to nursing research.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 699. Special Topics in Nursing Research. 1-3 Credit Hours.
Directed or independent research in collaboration with a faculty member providing opportunity for participation in ongoing nursing research. Specific requirements and credit allocation determined by contractual arrangement between student and faculty member.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

NUR 700. Post Master Clinical. 12.00 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 701. Clinical Continuation. 6.00 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

NUR 810. Master's Thesis. 1-6 Credit Hours.
The student working on his/her master's thesis enrolls for credit, in most departments not to exceed six, as determined by his/her advisor. Credit is not awarded until the thesis has been accepted.
Components: DIS.
Grading: SUS.
Typically Offered: Fall & Spring.

NUR 830. Doctoral Dissertation. 1-12 Credit Hours.
Required of all candidates for the Ph.D. The student will enroll for credit as determined by his/her advisor but not for less than a total of 12 credits. Not more than 12 hours of NUR 730 may be taken in a regular semester, nor more than six in a summer session. A student who has passed (a) qualifying examinations, and (b) is engaged in an assistantship, may still take the maximum allowable credit stated above.
Components: THI.
Grading: SUS.
Typically Offered: Fall, Spring, & Summer.

NUR 850. Research in Residence. 1-3 Credit Hours.
Used to establish research in residence for the Ph.D., after the student has been enrolled for the permissible cumulative total in appropriate doctoral research. Credit not granted. May be regarded as full-time residence as determined by the Dean of the Graduate School.
Components: THI.
Grading: SUS.
Typically Offered: Fall, Spring, & Summer.