



**Bachelor of Science in Nursing  
Course List and Course Descriptions**



## Bachelor of Science in Nursing Course List

Course Code	Course Name	Delivery	Credit Hours
EH111	English Composition	online	3
EL	Elective	online	3
EL	Science Elective	online	4
GEN305	Advanced Written Communications	online	3
HY113	History of Canada	online	3
IDS325	Pathophysiology	online	4
MS110	College Algebra	online	3
MS315	Statistics	online	4
NU110	Introduction to Foundational Nursing Concepts I	ground	4
NU135	Foundational Nursing Concepts II	ground	5
NU145	Pharmacology	online	3
NU180	Nursing Concepts Across the Lifespan I	ground	6
NU210	Nursing Concepts Across the Lifespan II	ground	5
NU220	Professional Nursing	online	3
NU300	Bioinformatics and Communication	online	4
NU315	Community and Population Health Nursing	ground	5
NU320	Multicultural Perspectives in Healthcare	online	4
NU330	Nursing Concepts Across the Lifespan III	ground	6
NU340	Nursing Specialty-Obstetrics and Mental Health	ground	4
NU350	Evidence Based Practice in Healthcare	online	4
NU360	Nursing Concepts Across the Lifespan IV	ground	6
NU410	Holistic Approaches to Healthcare	online	4
NU460	Leadership: Trends in the Changing Healthcare Environment	hybrid	4
NU480	Transition to Nursing Practice Clinical	hybrid	4
PY203	Lifespan Development	online	3
SC102	Introduction to Sociology	online	3
ZO115	Human Anatomy and Physiology of the Structural Systems	online	4
ZO116	Human Anatomy and Physiology of the Organ Systems	online	4
ZO211	Microbiology	online	4
ZU310	Genetics	online	4
	<b>Total Credits</b>		<b>120</b>

## Bachelor of Science in Nursing Course Descriptions

The BScN course descriptions include a brief description of the course topics, number of semester credit hours, and prerequisites, if applicable.

### General Sciences

#### **EH111 English Composition**

**3 Semester Credit Hours**

Prerequisites: None

This course introduces the essentials of prose writing, generation of ideas, organization and the writing process. Grammatical accuracy, sentence structure and use of supporting details are stressed. Students practice these concepts first by reading and analyzing prose models and then by writing paragraphs and translating to longer essay themes of various lengths using the following strategies: narration, description, definition, process, divide and classify, cause and effect, compare and contrast, and argument. A written paper demonstrating proper referencing and documentation is also included.

#### **GEN305 Advanced Written Communications**

**3 Semester Credit Hours**

Prerequisites: None

This course will introduce students to more in-depth academic writing genres incorporating narration, visual analysis, reviews and argument in a variety of academic publications. Students will continue to refine best practices regarding writing, learning to conduct literature reviews relevant to individual student disciplines, and become well-versed in the effective use of online databases, journals, and libraries. Students will effectively incorporate, and document primary and secondary sources formatted correctly with the APA style, while demonstrating higher levels of composition incorporating the writing process and all elements of successful writing across multiple academic disciplines.

#### **HY113 History of Canada**

**3 Semester Credit Hours**

Prerequisites: None

This course explores the major social and cultural trends, demographic and economic shifts, and international alliances, frictions, and conflicts that have characterized the Canadian experience from the beginning of Western Immigration. By tracking critical themes such as race, politics, technology, environment, and religion, students will learn to think historically, read critically, and model effective approaches to finding scholarly/other sources, writing, and civil engagement for a digital age. This course will also explore the historical foundations of Indigenous cultures in Canada such as Indigenous history, Residential Schools, the United Nations Declaration on the Right of Indigenous Peoples, Treaties, and Indigenous Rights. Through a critical analysis, students will explore the impact of events, policies and contemporary issues on Indigenous communities.

#### **IDS325 Pathophysiology**

**4 Semester Credit Hours**

Prerequisites: ZO115, ZO116, ZO211

This course focuses on core concepts necessary to understand the physiological aspects of disease and the approach necessary for the professional provider. This course also explores the pathophysiology of common disease states and integrates quality and safety approaches to the evaluation and treatment of the client. The student will address scientific principles essential to understanding alterations in body systems and will develop professional clinical decision making for health promotion, risk reduction, and disease management across the lifespan. The course provides a comprehensive approach to common alterations in body systems and addresses etiology, and clinical presentation of the disease process.

**MS110 College Algebra****3 Semester Credit Hours**

Prerequisites: None

This course includes a study of the fundamental algebraic processes. Topics will include real and rational numbers, radicals, monomials and polynomials, solution of first- and second-degree equations, inequalities, systems of linear equations in two and three unknowns, graphing of functions in Cartesian Coordinates, logarithms, determinants, and word problems.

**MS315 Statistics****4 Semester Credit Hours**

Prerequisites: MS110

This course studies the theory and application of statistics. Estimation will be conducted using properties of sufficient statistics and maximum likelihood estimators. Hypothesis tests will be developed for population means, proportions, chi-square tests of independence, as well as regression and ANOVA. Statistical hypothesis testing will be applied to real-world data sets using technology.

**PY203 Lifespan Development****3 Semester Credit Hours**

Prerequisites: None

This course is designed to assist the student in gaining a general, foundational knowledge of human development across the lifespan with an emphasis on mental health and wellbeing. The student will look closely at the three spheres of development essential to this process: physical, cognitive, and social, and how they intersect with mental well-being. Students will draw from their own experiences as well as be introduced to the most current understanding and literature regarding development with a particular focus on the psychosocial and emotional aspects of human growth and mental health.

**SC102 Introduction to Sociology****3 Semester Credit Hours**

Prerequisites: None

This course introduces the student to the study of society and the interaction of individuals within a society. Major areas of study include the concepts and theory of sociology, culture, social structure and social change and their relevance to mental health. Students will explore how sociological factors influence individual and collective mental health, providing a comprehensive understanding of the complex interplay between society and psychological well-being.

**ZO115 Human Anatomy and Physiology of the Structural Systems****4 Semester Credit Hours**

Prerequisites: None

In this course, basic bio-organization and six areas of the body structural systems are studied. The gross and microscopic structures and function of integumentary system, skeletal system, muscular system, nervous system, endocrine system and special senses are explored. Emphasis is placed on the diseases and diagnostic procedures related to each of these systems. This course involves both lecture and lab components.

**ZO116 Human Anatomy and Physiology of the Organ Systems****4 Semester Credit Hours**

Prerequisites: None

The gross and microscopic structures and function of the blood, the male and female reproductive systems, cardiovascular system, lymphatic system, respiratory system, digestive system, and urinary system are explored. Emphasis is placed on the diseases and diagnostic procedures related to each system. This course involves both lecture and lab components.

**ZO211 Microbiology****4 Semester Credit Hours**

Prerequisites: ZO115, ZO116

This course uses biological principles to help the student understand microorganisms as they relate to health sciences. Learning is focused on metabolism, the environment, and the genetics of microorganisms. Topics include the body's response to microorganisms, disease, and the body's defense mechanisms, the infection cycle, and transmission from host to host. Chemistry is integrated for understanding the enzymatic functions and microbial physiology. This course includes a laboratory which explores the physiological, nutritional, and environmental needs of bacteria and fungi. Sterilization techniques, the use of the microscope, and the antibiotic susceptibility of bacteria are also studied. Laboratory activities include cultivation techniques, microscopy, biochemical assays, immunoassays and identification. This course involves both lecture and lab components.

**ZU310 Genetics****4 Semester Credit Hours**

Prerequisites: ZO211

This course prepares the student with a general knowledge of gene structure and the human genome's organization and function. The topics will explore the structure and function of genes, chromosomes and genomes, biological variation resulting from recombination, mutation, and selection, population genetics, and use of genetic methods to analyze protein function, gene regulation and inherited diseases.

### **Nursing Core Courses**

#### **NU110 Introduction to Foundational Nursing Concepts I**

**4 Semester Credit Hours**

Prerequisites: EH111, MS110, SC102, PY203, ZO211, and a 77% (C+) for ZO115 and ZO116

This course introduces the student to concepts that provide the foundation for the professional practice of nursing, including nursing theory, the nursing process, critical thinking, and professional behaviours. Emphasis is also placed on concepts related to the healthcare system and patient-centered care. NU110 involves a laboratory experience which provides an opportunity for students to develop basic patient-centered nursing skills. Medical terminology and dosage calculations are integrated into the course.

#### **NU135 Foundational Nursing Concepts II**

**5 Semester Credit Hours**

Prerequisites: NU110 and ZO211

This course builds on the concepts learned in NU110, continuing to focus on principles essential to the nursing profession. Concepts related to patient-centered care are emphasized. NU135 has a nursing lab component where the skills required to conduct a health assessment will be introduced. Other skills include medication administration, aseptic technique, and IV therapy. NU135 provides clinical experience in a long-term care facility where the student will begin to utilize the nursing process as the means of providing basic nursing care to meet the holistic needs of senior clients.

#### **NU145 Pharmacology**

**3 Semester Credit Hours**

Prerequisites: MS110, ZO211, ZO115, and ZO116

This course will focus on the principles of pharmacology and the major drug classifications in relation to the treatment of health problems throughout the lifespan. Emphasis will be placed on the knowledge and interventions needed to maximize therapeutic effects and prevent or minimize adverse effects of medications.

#### **NU180 Nursing Concepts Across the Lifespan I**

**6 Semester Credit Hours**

Prerequisites: NU135

Co-requisite: NU145

This course will focus on holistic nursing care and the application of the nursing process in the care of patients across the lifespan who are experiencing common selected pathophysiological processes affecting body regulatory mechanisms. Pharmacology and diet therapy are integrated throughout the course. This course builds upon basic nursing knowledge and skills established during prior fundamental nursing courses. Opportunities to apply theoretical concepts and perform nursing skills are provided through faculty guided clinical/learning experiences in acute healthcare settings.

#### **NU210 Nursing Concepts Across the Lifespan II**

**5 Semester Credit Hours**

Prerequisites: NU180 and SC102

This course will introduce the student to the psycho-social-cultural health of the individual from birth through to adolescence. Other concepts include common childhood illnesses, nutrition, communication, and pharmacology. The student will further develop health assessment and nursing care skills for pediatric patients. The student will expand skills in the use of the nursing process and critical thinking in meeting needs within the family system, well child, and acute care settings.

#### **NU220 Professional Nursing**

**3 Semester Credit Hours**

Prerequisites: None

This course focuses on professional standards of care, quality and safety benchmarks, code of ethics for nurses and provincial nursing practice acts. This course is designed to explore the role of the nurse as a leader in the profession and in health care delivery. Through this course, the student will gain a better understanding of leadership styles and techniques and will enhance their individual leadership skills in maintaining standards of care. The course also emphasizes the professional role of the nurse in assisting individuals in the community in locating and utilizing appropriate community resources. Principles and theories of leadership will be integrated and related to the role of the professional nurse in the delivery of care to individuals, groups, and communities.

**NU300 Bioinformatics and Communication****4 Semester Credit Hours**

Prerequisites: None

This course will focus on the integration of communication and information science, computer science, and cognitive science to acquire, process, design, and disseminate knowledge. Students will discuss the impact informatics has on the delivery of care including efficiency and productivity, client safety and confidentiality. Students will also learn the principles and basic skills for effective speaking and provide an appreciation of the values and uses of spoken communication and body language. Students will learn to communicate with clients in all settings. Emphasis will be placed on the SPIKES and SOLER model of communication and breaking bad news. Students will have a chance to demonstrate the art of communication and body language while in the clinical setting.

**NU315 Community and Population Health Nursing****5 Semester Credit Hours**

Prerequisites: NU350

This course reviews concepts and theories related to public, family, community, and population health. Emphasizing the role of the nurse in sustaining, restoring, and promoting health among diverse populations is explored. Principles of epidemiology and the influence of factors impacting the health and wellness of local and global communities are incorporated. The opportunity for students to collaborate within their community is explored using assessment tools to improve health outcomes. This course includes a practice component within a community health setting.

**NU320 Multicultural Perspectives in Healthcare****4 Semester Credit Hours**

Prerequisites: NU350

This course recognizes the importance of providing and incorporating cultural beliefs and experience of clients, families, and their health care professionals with care settings. Topics include comparative analysis of communication styles, fostering open communication, family roles, dietary preferences, safety and concerns associated with cultural beliefs, values and practices of cultural norms, and the impact of health care practice. Nursing interventions that integrate and examine evidence-based practice related to various cultural beliefs, including Indigenous worldviews, will be discussed. The importance of incorporating a holistic approach in the care and treatment of the client will be demonstrated within this course.

**NU330 Nursing Concepts Across the Lifespan III****6 Semester Credit Hours**

Prerequisites: NU210, NU340

This course will focus on holistic nursing care and the application of the nursing process in the care of patients across the lifespan who are experiencing common selected pathophysiological processes affecting body regulatory mechanisms. Students will learn to assess, plan, implement, and evaluate patient care interventions, developing a comprehensive understanding of disease conditions and their impact on the overall well-being of individuals at different stages of life.

**NU340 Nursing Specialty-Obstetrics and Mental Health****4 Semester Credit Hours**

Prerequisites: NU180, NU210, IDS325

This course will focus on two areas of specialty. The first area will be on concepts such as maternity, pregnancy, labour and delivery, post-partum, newborn care and development, health maintenance and prevention in maternity, newborn, and mental health. The student will further develop health assessment and nursing care skills for maternity and newborn babies. The second area of focus will feature concepts related to care of patients with common mental health disorders. The student will continue to expand skill levels in the use of the nursing process by providing holistic care in acute care and community health. The student will further develop therapeutic communication techniques and psycho-social assessments for these individuals. Student learning is focused on mood disorders, safety/substance abuse issues, violence, suicide, developmental age-related pathophysiology, grief/loss, and psychopharmacology.

**NU350 Evidence Based Practice in Healthcare****4 Semester Credit Hours**

Prerequisites: MS315

This course exposes the student to the role of research in professional nursing practice and the principles and models of evidence-based practice. The student will be introduced to quantitative and qualitative research by reviewing, evaluating, and critiquing current research which uses a variety of designs. Emphasis will also be placed on the interpretation of data from various empirical research related to nursing for the purposes of understanding and disseminating the information to healthcare staff. Students will be introduced to quality improvement and how it benefits healthcare.

**NU360 Nursing Concepts Across the Lifespan IV****6 Semester Credit Hours**

Prerequisites: NU210, NU340, NU330

This course continues to focus on the holistic nursing care of patients across the lifespan who are experiencing complex pathophysiological processes affecting body regulatory mechanisms. Students will use critical thinking and the nursing process when providing direct nursing care or managing the care for a group of patients in the hospital setting. Nursing management skills, such as time management, prioritization, and delegation will be emphasized. This course will also allow students the opportunity to demonstrate the achievement of graduate competencies and to refine their nursing care practice skills. Pharmacology and diet therapy are integrated throughout the course. This course builds upon the nursing knowledge and skills established during prior nursing courses. Opportunities to use theoretical concepts and perform advanced nursing skills are provided through faculty guided clinical/learning experiences in acute health care settings.

**NU410 Holistic Approaches to Healthcare****4 Semester Credit Hours**

Prerequisites: NU220

This course introduces the use of complementary and integrative therapies in healthcare. The goal is to provide the student with knowledge and experience of mind/body self-healing skills, multi-cultural integrative healthcare theories-especially that of Indigenous populations, practice environments and interventions that can be used safely and effectively.

**NU460 Leadership: Trends in the Changing Healthcare Environment****4 Semester Credit Hours**

Prerequisites: NU350

This course focuses on the principles of management and leadership and leadership styles in the delivery of healthcare. An overview of theories assists the student in understanding legal and ethical implications related to the role of the professional nurse about care, staffing, budgeting, quality improvement, safety concerns, and other issues. Content includes current trends and issues in healthcare leadership and management and the contribution of the professional nurse.

**NU480 Transition to Nursing Practice Clinical****4 Semester Credit Hours**

Prerequisites: All Concentration Courses in the BScN program

Co-requisites: NU460

This course is designed for students to select a focused area of nursing from a variety of practice settings to integrate and refine competencies in professional, ethical, and legal practice, theoretical, clinical, and critical thinking, leadership and inter-professional collaboration, and application of evidence-informed practice. Clinical placements include areas where students can refine psychomotor skills. This also provides an opportunity for students to evaluate and refine their learning plan as necessary and prepare for the NCLEX exam.

## Electives

### **BIO210 Biology**

**4 Semester Credit Hours**

Prerequisites: None

Topics covered in the course include chemistry of life, cell structure and membranes, cellular functions (metabolism, respiration, photosynthesis, communication, and reproduction), genetics (inheritance patterns, DNA structure and function, gene expression, and biotechnology), and evolution. This course involves both lecture and lab components.

### **BIO215 Physiology**

**4 Semester Credit Hours**

Prerequisites: ZO115, ZO116

The focus of this course will be the nervous system, muscle physiology, and special senses. Discussions will include ion movement, action potentials, synapses & receptors, the central, peripheral and autonomic nervous systems, excitation-contraction coupling in skeletal muscle and the mechanisms specific to vision, hearing, smell & taste, in addition to the somatosensory system.

### **BIO250 Molecular Biology**

**4 Semester Credit Hours**

Prerequisites: None

A thorough examination of the basic structure and function of cells, with an emphasis on eukaryotic cell biology. The objective is to use knowledge of molecular biology to interpret results and draw conclusions about research findings and technological applications. Topics include cell-cycle growth and death; protein structure, DNA replication, repair, and recombination; gene expression; RNA processing; and molecular transport, traffic, and signaling. Discussion also covers the application of recombinant DNA, genetic engineering, and other current molecular biology technology. This course involves both lecture and lab components.

### **BIO270 Virology / Infectious Diseases**

**4 Semester Credit Hours**

Prerequisites: ZO211

The course is a study of infectious diseases. Attention is given to nomenclature, classification, symptomatology, prevention and treating parasitic, bacterial, viral, and fungal infections.

### **GEN310 Advanced Oral Communications**

**3 Semester Credit Hours**

Prerequisites: None

This course will introduce students to more in-depth academic writing genres incorporating narration, visual analysis, reviews, and arguments in a variety of academic publications. Students will continue to refine best practices regarding writing techniques, learn to conduct reviews relevant to individual student disciplines, and become well-versed in the effective use of online databases, journals, and libraries. Students will effectively incorporate, and document primary and secondary sources formatted correctly with the APA style, while demonstrating higher levels of composition incorporating the writing process and all elements of successful writing across multiple academic disciplines.

### **GEN330 Introduction to Philosophy**

**3 Semester Credit Hours**

Prerequisites: None

This course discusses modern philosophy, from the Renaissance to the present, with careful study of works by Descartes, Hume, Kant, and others. Emphasis is placed upon the complex relations of philosophy to the development of modern science, the social and political history of various populations including Indigenous worldviews.

### **PY101 Introduction to Psychology**

**3 Semester Credit Hours**

Prerequisites: None

The student, introduced to the nature and objectives of psychology, develops an appreciation of psychological research and findings. This course focuses on individual development--heredity and environment, conditioning processes, conflict and anxiety and defense mechanisms. Consideration is also given to interaction through social processes (group dynamics) in terms of dealing with reality and eventual self-actualization.