

Bachelor of Science in Nursing

College of Medicine and Health Sciences / Nursing Department

Total Credit Hours: 52

1. Programme Overview

The Bachelor of Science in Nursing programme is designed in response to the growing national and regional demand for qualified nurses. It comprises 130 credit hours delivered over four years of study, including internship. The programme is taught in English and adopts a competency-based approach aligned with international frameworks (e.g., AACN Essentials), preparing graduates to deliver holistic, safe, and patient-centered care across diverse healthcare settings in the GCC.

2. Study Plan

Course Code	Course Title	Credit Hours
YEAR 1		
Semester 1 — Department Requirements		
ENGL101	English I	3
ENGL102	Medical Terminology for Nursing	1
ANAT101	Anatomy and Physiology I	4
CHEM101	Biochemistry	2
NURS101	Introduction to the Nursing Profession	3
MEDU101	Study Skills	2
Total Credit Hours		15
Semester 2		
ENGL103	English II	4
ANAT102	Anatomy and Physiology II	4
BESC101	Behavioural Sciences	2
NURS102	Fundamental of Nursing Practice	5
COMP101	Computer skills	2
Total Credit Hours		17
YEAR 2		
Semester 3		
PATH201	Pathophysiology	2
MICR201	Microbiology and Infection Control	2

Course Code	Course Title	Credit Hours
NURS201	Health assessment	5
NURS202	Growth and Development	2
NURS203	Communication Skills	2
ISLM101	Islamic Ethics and Human Rights	2
Total Credit Hours		15
Semesters 4		
PHAR201	Pharmacology	3
NURS204	Clinical Nutrition	2
NURS205	Medical/ Surgical Nursing I	6
FAMM201	Epidemiology and Biostatistics	3
NURS206	Healthcare Technology	2
Total Credit Hours		16
Course Code	Course Title	Credit Hours
YEAR 3		
Semester 5		
NURS301	Medical/ Surgical Nursing II	6
NURS302	Nursing Research and Evidence- Based Practice	3
NURS303	Geriatric Nursing	2
Elective courses to choose from		
NURS304	Emerging Technologies for Healthcare.	2
NURS305	Entrepreneurship in Healthcare	2
NURS306	Foundations of Disability Education	2
Total Credit Hours		15
Semester 6		
NURS307	Paediatric Nursing	6
NURS308	Maternity Nursing	6
NURS309	Critical Care Nursing	6
Total Credit Hours		18

Course Code	Course Title	Credit Hours
YEAR 4		
Semester 7		
NURS401	Psychiatric and Mental Health	5
NURS402	Community Health Nursing	5
NURS403	Nursing Management and Leadership	4
Clinical Elective courses to choose from:		
NURS404	Renal Dialysis	3
NURS405	Pain Management	3
NURS406	Diabetes Care and Management	3
Total Credit Hours		17
Semester 8		
NURS407	Integrative Practicum	17
Total Credit Hours		17
Total Programme Credit Hours		130

3. Course Descriptions

ENGL101— English I (3 CH)

This course is designed to develop the English language skills of nursing students. The course will enable the students to read a variety of nursing-related texts, including journal articles, textbooks, and patient records. Throughout the course, students will develop their writing skills by writing essays, summaries, and case studies. Also, they will be able to review and strengthen their grammar skills and expand their vocabulary by learning new medical terms. Students will be able to develop their communication skills by practicing oral and written presentations.

ENGL102— Medical Terminology for Nursing (1 CH)

This introductory course is designed to strengthen foundational knowledge of medical terminology for nursing students, enhancing their knowledge of terminology and ability to communicate effectively and confidently in clinical settings. Using the textbook *Medical Terminology: A Short Course* by Chabner, students will explore essential medical terms, their roots, prefixes, and suffixes, with a focus on terminology relevant to nursing practice. Through interactive exercises, case studies, and applied practice, students will build a solid vocabulary base, improve their comprehension of clinical documentation, and become better prepared for real-world patient care.

ANAT101 Anatomy and Physiology I (4 CH)

This is a foundational course specifically designed for nursing students. This course provides a comprehensive understanding of the structure and function of the human body systems, laying the groundwork for further study in nursing practice. Students will focus on the integumentary, skeletal, muscular, nervous, and special senses systems. Throughout the course, students will examine the organization and interrelationships of these body systems,

emphasizing the anatomical structures, their functions, and the mechanisms that maintain homeostasis. Major anatomical landmarks, bones, muscles, nerves, and sensory organs will be studied in detail, exploring their roles in overall health and functioning.

CHEM101 Biochemistry (2 CH)

This course is designed to provide nursing students with a solid foundation in biochemistry and its application in the field of nursing. The course aims to equip students with the necessary knowledge and skills to understand the biochemical processes that occur within the human body and their relevance to patient care. Throughout the course, students will explore the fundamental principles of biochemistry, including the structure and function of biomolecules such as proteins, carbohydrates, lipids, and nucleic acids. Emphasis will be placed on understanding the role of these biomolecules in cellular processes, metabolism, and energy production. The course will discuss the biochemical pathways involved in the metabolism of nutrients and the synthesis and breakdown of biomolecules. Students will gain an in-depth understanding of concepts such as enzyme kinetics, cellular respiration, and the regulation of biochemical reactions.

NURS101 Introduction to the Nursing Profession (3 CH)

This introductory course provides new nursing students with a comprehensive overview of the history, nature, and roles of nursing. It is designed to equip students with the fundamental knowledge and positive attitudes necessary for success in their nursing education and future careers. The course covers essential concepts such as the concept of health, the nursing process, and healthcare delivery. Additionally, it emphasizes the development of critical thinking and decision-making skills, which are crucial for safe and competent nursing practice. Students will also gain an understanding of the nurse's role in maintaining, promoting, and restoring health, as well as preventing illnesses across the lifespan.

MEDU101 Study Skills (2 CH)

This course provides a thorough background to the fundamental principles of learning and developing student-centered instructional strategies. It addresses the different teaching-learning approaches to achieve a wide range of instructional objectives. Participants will be exposed to the steps of educational planning, selecting and organizing learning activities, and employing various evaluation methods to measure student progress effectively.

ENGL103 English II (4 CH)

This course is designed to build upon the English language skills developed in English I and further enhance the communication and academic writing skills of nursing students. The course will focus on enabling students to critically analyze and interpret a variety of nursing-related texts, including research articles, clinical guidelines, and patient education materials. At this level, students will be encouraged to strengthen their academic writing skills by composing literature reviews, and persuasive essays. Students will be guided to develop their professional communication skills by practicing presentations, writing formal emails, and engaging in effective interpersonal communication within the nursing context.

ANAT102 Anatomy and Physiology II (4 CH)

This course is a continuation of the comprehensive course designed for nursing students, building upon the knowledge gained in Anatomy and Physiology I. This course focuses on the cardiovascular, respiratory, digestive, urinary, endocrine, and reproductive systems. Students will explore the anatomical structure, physiological functions, and interrelationships of these systems. The course emphasizes the mechanisms involved in maintaining homeostasis within each system and their contributions to overall health. It also covers the integration of multiple body systems and their coordinated responses to various stimuli.

BESC101 Behavioural Science (2 CH)

This course provides a study of humankind and their relationship to their environment and the nature of social groups, such as the family, race, class, religion, and civilization. It affects and is affected by economics, politics,

anthropology, psychology, culture, ethnicity, and a myriad of other public and private arenas. Also, this course will help the learner understand why people think and act the way they do. Also, the course will provide insights into one's personal attitude and response to everyday situations and interactions.

NURS102 Fundamental of Nursing Practice (5 CH)

In this course, the student will practice in a simulated environment to apply basic Concepts, skills, and techniques of nursing practice. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

COMP101 Computer Skills (2 CH)

This course introduces students to fundamental Computer Science topics such as Algorithms, Programming Languages, Computer Networks, the Internet and the Web, Data Representation and Databases, and emerging topics such as Internet of Things, Big Data, cybersecurity, and artificial intelligence & machine learning. Students also will be introduced to topics that will make them aware about health records, records management, Security Issues in Health Care Information Systems and much more.

PATH201 Pathophysiology (2 CH)

This course will provide an in-depth understanding of the underlying mechanisms of diseases and disorders. This course explores the altered physiological processes that occur in the human body because of illness or injury. Students will study the pathogenesis, clinical manifestations, and complications of various diseases across multiple body systems. Emphasis is placed on the relationship between pathophysiology and nursing practice, including assessment, diagnosis, and intervention.

MICR201 Microbiology and Infection Control (2 CH)

This course provides an overview of the basic principles of microbiology and immunology with a focus on their relevance to nursing practice. The course will cover the structure, classification and identification of common microorganisms. It will also expose nursing students to the mechanisms of microbial pathogenesis with emphasis on prevention and treatment of infectious diseases. Students will be able to describe the structure and function of the immune system and the various immune responses of the human body.

NURS201 Health Assessment (5 CH)

Health Assessment course provides the student with the opportunity to develop skills in health assessment across the life span with a focus on adulthood through a holistic Perspective of clients' health status. Laboratory experiences provide and enable students to apply theoretical knowledge in performing comprehensive physical examinations and health assessments to a diverse Population – both healthy and ill clients. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS202 Growth and Development (2 CH)

This course focuses on the study of human development from infancy to late adulthood, exploring physical, cognitive, emotional, and social changes that occur throughout the life span. Students will examine theories, milestones, and factors influencing growth and development at each stage. The course emphasizes the role of nurses in promoting optimal development, addressing developmental challenges, and providing age-appropriate care.

NURS203 Communication Skills (2 CH)

This course provides the basics of effective communication including the use of verbal and non-verbal communication. It focuses on communication concepts and styles in a variety of contexts to prepare the students for learning effectively and the future interaction with patients and their families. Special emphasis is placed on dynamics

of group functioning and means of communicating effectively within groups. Exercises and simulations on communication problems will be provided in class to enhance students' achievement of the course objectives.

ISLM101 Islamic Ethics and Human Rights (2 Credit Hours)

This course includes a definition of the concept of ethics and profession in Islam, the values that are considered in it, with a presentation of the historical aspect of the application of these ethics in Islamic civilization, and its study in the systems of the GCC region. On the course, students will be familiar with the legal and regulatory controls of the provision of care. This course will also expose students to human rights from the Islamic perspective. Students will be guided to reflect on the difference and similarities of the Islamic perspective of human rights concepts stipulated in relevant international organizations.

PHAR201 Pharmacology (3 Credit Hours)

This course will help the student to examine pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan. Emphasis is on the principles of pharmacokinetics, pharmacodynamics and pharmacogenetics in the treatment of selected illnesses. The focus is on concepts of safe administration and monitoring the effects of pharmacotherapeutic agents.

NURS204 Clinical Nutrition (2 CH)

Clinical Nutrition is a specialized course designed for nursing students to gain knowledge and skills related to the assessment and management of nutritional needs in patients. This course focuses on the application of nutrition principles and evidence-based practices in diverse healthcare settings. Students will learn about the role of nutrition in promoting health, preventing diseases, and supporting the management of various medical conditions.

NURS205 Medical/Surgical Nursing I (6 CH)

This course focuses on applying and implementing the nursing process in the care of adults in a variety of health care settings. This course focuses on respiratory, cardiovascular, hematology, metabolic and endocrine, and gastrointestinal disorders. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

FAMM201 Epidemiology and Biostatistics (3 CH)

Epidemiology is a vital course designed for nursing students to understand the principles and methods of studying the distribution and determinants of health-related events in populations. This course explores the patterns, causes, and prevention of diseases and injuries within communities. Students will examine the concepts of incidence, prevalence, and risk factors, as well as the design and interpretation of epidemiological studies. In addition, students will be introduced to essential biostatistical methods, equipping them with skills to analyze health data, interpret findings, and support data-driven decision-making. Emphasis is placed on the application of epidemiological principles in nursing practice, including disease surveillance, outbreak investigation, and the development of evidence-based interventions.

NURS206 Healthcare Technologies (2 CH)

This course includes health care information systems, informatics nurse specialist role, application of information systems, database management, and health care technologies in the management of individuals, groups, and organizations to improve patients' outcomes.

NURS301 Medical/Surgical Nursing II (6 CH)

This course focuses on applying and implementing the nursing process in the care of adults in a variety of health care settings. This course focuses on the renal system, immune system, endocrine, neurological, musculoskeletal and metabolic bone disorders, and eye and ear disorders. Students are required to achieve certain core clinical

competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS302 Nursing Research & Evidence-Based Practice (3 CH)

This course examines basic research concepts, language and processes. Approaches to research and ways of knowing in nursing and related sciences are explored. Qualitative and quantitative research methods are compared. Students critically appraise and interpret studies in order to enhance their understanding of the research process.

NURS303 Geriatric Nursing (4 CH)

This course delivers the needed information regarding the care of the elderly. The theories and concepts of aging, the physiologic and psychosocial changes and problems associated with the aging process. The relevant nursing interventions for the elderly and their families are addressed, taking into consideration the ethical and legal aspects of caring for the elderly. The course content seeks to provide a sound knowledge base from which students can practice gerontological nursing and to cultivate within the student a respect and appreciation for the older adult.

NURS304 Emerging Technologies for Healthcare (2 CH)

This course introduces students to Emerging Technologies that are reshaping the Healthcare Landscape. Students will explore Artificial Intelligence, Blockchain, the Internet of Things (IoT), and Quantum Technologies through interactive lectures and real-world applications. The course is designed to provide a practical understanding of these technologies, focusing on their potential to enhance nursing practice, improve patient outcomes, and streamline healthcare delivery. No prior technical knowledge is required.

NURS305 Entrepreneurship in Healthcare (2 CH)

This elective course provides nursing students with essential business principles relevant to healthcare. Topics include healthcare management, financial planning, budgeting, and strategic decision-making. The course aims to equip students with skills to enhance their effectiveness in multidisciplinary teams and prepare them for leadership roles, emphasizing the impact of business dynamics on patient outcomes and operational efficiency.

NURS306 Foundations of Disability Education (2 CH)

This elective course provides nursing students with the knowledge and basic concepts in disabilities, both in terms of definition, prevalence, clinical picture, causal factors, different characteristics of people with disability, and the methods and tools used in diagnosis and assessment of these cases. The theoretical approaches covered (Neural, Psychodynamic & Cognitive) explain the various symptoms of them, as well as programs and methods of intervention used for the development of communication skills as well as social and academic skills.

NURS307 Paediatric Nursing (6 CH)

This course focuses on common acute and chronic health problems of children with an emphasis on developmental, physiological and psychosocial care of the child within the family unit. In addition, it offers a practical application of knowledge and skills to provide safe and competent family-centered care in a variety of paediatric clinical settings. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS308 Maternal Health (6 CH)

This course addresses the health promotion of childbearing women and normal newborn. Emphasis will be placed on physical, nutritional, psychological, emotional and social needs of the women and the newborn. Individual dignity, appropriate communication skills, and pharmacological aspects are emphasized. Professional responsibilities of the nurse, quality improvement, and patient safety issues are integrated throughout the course, along with ethical and legal responsibilities. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS309 Critical Care Nursing (6 CH)

The course focuses on the role of critical care nurses in the application of accurate and continuous monitoring of critically ill patients using invasive and non-invasive devices, implementation of life-saving actions, prioritization of tasks, and evaluation of nursing care provided in critical care settings. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS401 Psychiatric & Mental Health (5 CH)

The course will explore the mental health-mental illness continuum across the lifespan and gives students an understanding of basic mental processes and nursing interventions. Clinical experiences will enable each student to develop effective use of self and apply the therapeutic communication process and phases of the therapeutic nurse-patient relationship. In addition, the clinical experience focuses on the nursing assessment and clinical management of patients with acute and chronic mental illnesses in the clinical setting. Cultural, ethical and legal dimensions are addressed in the delivery of nursing care. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS402 Community Health Nursing (5 CH)

Students will be assisted in identifying the health needs of the individuals/ families and population of various age groups and respond to them utilizing the nursing process and application of primary, secondary, and tertiary prevention.

NURS403 Nursing Management & Leadership (4 CH)

This course focuses on the study of theories, principles and basic concepts related to nursing management and leadership such as staffing, scheduling, nursing care delivery models, human resources management, quality improvement, and change management with application in clinical settings. Students are required to achieve certain core clinical competencies appropriate for their level as an outcome of this course and they will be tracked by the collected matrix for BSN program clinical competencies.

NURS404 Renal Dialysis (3 CH)

This elective course provides nursing students with specialized knowledge and skills in renal dialysis care, focusing on the nursing responsibilities in the management of patients with renal failure. Students will learn about the physiology of kidney function, types of dialysis treatments (hemodialysis and peritoneal dialysis), and the role of the nurse in preparing, monitoring, and supporting patients throughout the dialysis process.

NURS405 Pain Management (3 CH)

This elective course provides nursing students with specialized knowledge and skills in renal dialysis care, focusing on the nursing responsibilities in the management of patients with renal failure. Students will learn about the physiology of kidney function, types of dialysis treatments (hemodialysis and peritoneal dialysis), and the role of the nurse in preparing, monitoring, and supporting patients throughout the dialysis process. Key topics include patient assessment, fluid and electrolyte balance, infection control, vascular access management, and addressing complications associated with dialysis. Emphasis is placed on patient-centered care, ethical considerations, and promoting quality of life for dialysis patients. This course prepares nursing students for effective, compassionate care in renal and dialysis settings.

NURS406 Diabetes Care and Management (3 CH)

This elective course prepares nursing students to provide specialized care for patients with diabetes. The course covers diabetes types, risk factors, complications, and effective management strategies. Students will learn key skills in blood glucose monitoring, medication management, lifestyle education, and patient empowerment. Emphasis is

placed on patient-centered, evidence-based approaches to diabetes care, focusing on preventing complications and promoting self-management to enhance patients' quality of life.

NURS407 Integrative Practice (17 CH)

This course is designed to provide students with immersive clinical experience, allowing them to further develop and refine their nursing skills and knowledge in real-world settings. Under the supervision of a staff nurse, students will rotate through various hospital departments to gain comprehensive exposure to all areas of nursing practice. This rotation ensures that they acquire the full range of clinical skills necessary to prepare them for their future nursing careers. In addition to direct patient care, students will engage in leadership activities and patient education, further enhancing their professional development.



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