



Arabian Gulf University

Bachelor of Science in
Nursing

2024

Bachelor of Science in Nursing

PREFACE

In the dynamic and ever-evolving healthcare landscape of the Arabian Gulf region, the demand for qualified and compassionate nurses is at an all-time high. Recognizing this critical need and the rapidly evolving health systems in the region, the Arabian Gulf University (AGU) recognizes the importance of introducing Bachelor of Science in Nursing (BSN) program, designed to equip nurses with the knowledge, skills, and values essential to excel in this noble profession.

This comprehensive BSN program is tailored to meet the specific healthcare needs of the Arabian Gulf region, considering the cultural nuances, demographic trends, and prevalent health challenges of the area. The program's curriculum integrates a strong foundation in nursing science with practical clinical experiences, ensuring that graduates are well-prepared to provide patient-centered care across diverse healthcare settings.

The program is committed to cultivating a generation of nurses who embody the university's core values of excellence, integrity, and innovation. Our graduates will not only possess the clinical expertise to provide high-quality care but will also be equipped with the leadership qualities and cultural sensitivity to navigate the unique healthcare landscape of the Arabian Gulf region.

INTRODUCTION

As the Arabian Gulf region continues to witness rapid economic growth and development, the demand for quality healthcare services is also on the rise. This demand is further fueled by an aging population, an increase in chronic diseases, and the growing prevalence of lifestyle-related health issues. To address these pressing healthcare needs, there is an urgent need for a highly skilled and compassionate nursing workforce.

The program is designed to meet this critical demand by preparing future nurses to provide high-quality, patient-centered care in a variety of healthcare settings. The program's rigorous curriculum emphasizes both theoretical knowledge and practical clinical experience, ensuring that graduates are well-equipped to address the complex healthcare challenges facing the region.

Moreover, it is predicted that the demand for nurses in the GCC countries will be increased by 2030. To meet this need without overseas recruitment, thousands of new nurses should graduate and be employed each year in GCC countries. Qualifying national nurses who are skilled and culturally sensitive will resolve one of the main hurdles currently inhibiting fulfilling the evolving needs of health systems in the region.

AGU's BSN program is distinguished by its focus on the unique cultural and healthcare needs of the Arabian Gulf region. The program incorporates culturally sensitive teaching methodologies and clinical placements in diverse healthcare settings, ensuring

that graduates are prepared to provide culturally competent care to patients from various backgrounds.

In addition to its strong clinical focus, the program emphasizes leadership development and research skills. Graduates will be equipped to take on leadership roles in the nursing profession and contribute to the advancement of nursing practice through evidence-based research.

The program is a transformative educational experience that will prepare future nurses to make a significant impact on the healthcare landscape of the Arabian Gulf region. Graduates will emerge as compassionate and skilled professionals, ready to provide high-quality care and contribute to the overall well-being of individuals and communities.

The program is conceived to leverage the quality and performance of nursing practice. It consists of a competency-based curriculum in the design, implementation, and evaluation.

RATIONALE

- The Arabian Gulf region is experiencing rapid economic growth and development, leading to an increased demand for quality healthcare services.
- Increase the percentage of qualified national nurses from the GCC countries and achieve the international standards for the ratio of nurses per 10,000 population (31 per 10,000) in order to meet the needs of the evolving health systems.
- Build competence and capability of nurses to person-centered care in a variety of healthcare settings.
- Fulfil the needs of communities and the healthcare systems in the GCC countries.
- The aging population, rising prevalence of chronic diseases, and lifestyle-related health issues are creating a critical need for a well-trained and skilled nursing workforce.
- The AGU offers this program in fulfillment of Article 4 of the University Establishment Agreement and its Strategic Goal 2, which call for the introduction of high-quality programs in areas of knowledge related to health, science, and technology with originality and creativity in their curricula and modernity in their methods to help achieve the visions of the GCC countries.

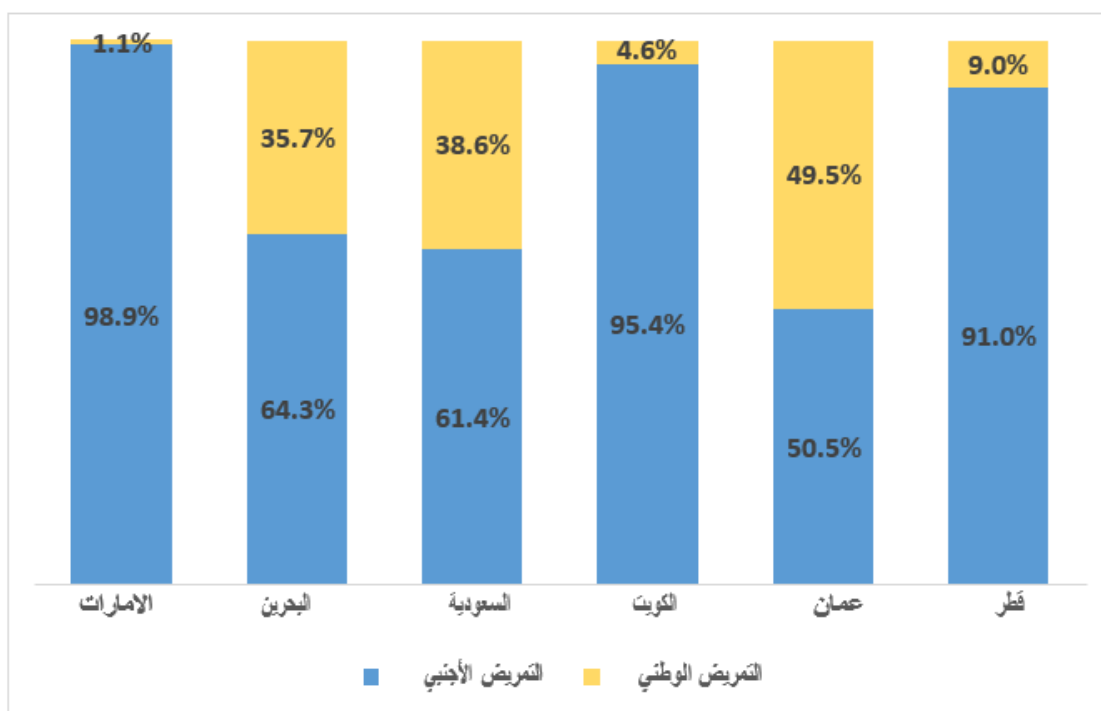


Figure 1: National Vs expat. nurses in GCC count

PROGRAM DEVELOPMENT

The proposal for the BSN Program was developed by a task force consisting of four members representing the Department of Medical Education as well as basic and clinical sciences departments. The task force started working on the first draft of the proposal in November 2023.

The expected competencies of the program were developed based on the competencies of the American Association of Colleges of Nursing (AACN) nursing programs. The taskforce benchmarked similar BSN programs, including Bachelor of Nursing programs at King Saud University (KSA), University of Bahrain, Irish Royal College of Surgeons in Bahrain, Florida Atlantic University (USA), Ana Maria College, Massachusetts (USA), Oregon Coast Community College (USA), University of Central Florida (USA), Ramapo College (USA), and Ibn Sina National College for Medical Studies (KSA).

Based on this benchmarking, the task force study team developed an integrated proposal for the BSN Program. The proposal was initially approved by the curriculum committee and college council of the College of Medicine and Medical Sciences at the Arabian Gulf University (CMMS-AGU) before sending it to external reviewers who are experts in the field of specialization and their observations were included in the proposed program.

The head of the nursing program, who joined the task force later, conducted a thorough review of the curriculum. She modified the arrangement of some courses based on the prerequisites and corequisites and aligned the program's learning outcomes with the key learning outcomes specified by the National Commission for Academic Accreditation & Assessment (NCAAA). These key outcomes describe what students are expected to know and be able to do by the time of graduation. Additionally, she ensured that all program learning outcomes were aligned with the courses in the program.

After incorporating the feedback from external reviewers, the revised program was presented to the University Council, following the administrative sequence and escalation process, leading to its recommendation to the university board of trustees.

VISION

“To be a leading nursing education program in the Arabian Gulf region, preparing graduates to provide exceptional patient-centered care, engage in impactful research and contribute to the advancement of healthcare of the Gulf community”.

MISSION

“To empower aspiring nurses with the competencies and values necessary to excel in their profession, fostering excellence in patient care, cultural sensitivity, leadership, and sustainable health care advancements within the Arabian Gulf region”.

VALUES

- ✓ **Compassion:** We value empathy, understanding, and genuine care for the well-being of others.
- ✓ **Integrity:** We uphold ethical principles, honesty, and accountability in all our actions.
- ✓ **Excellence:** We strive for continuous improvement, pursuing the highest standards in nursing education and patient care.
- ✓ **Innovation:** We embrace creativity, seeking new knowledge and approaches to enhance nursing practice.
- ✓ **Cultural Sensitivity:** We recognize and respect the diverse cultural backgrounds and beliefs of our patients, colleagues, and communities.
- ✓ **Leadership:** we foster a sense of responsibility and inspire others by exemplifying professionalism and a commitment to advancing healthcare.

PROGRAM GOALS

1. Develop a comprehensive understanding of nursing science and its practical application to deliver effective patient care in diverse healthcare environments.
2. Cultivate clinical competencies that enable graduates to provide high-quality, patient-centered care across a variety of healthcare settings.
3. Foster leadership skills and the ability to contribute to the advancement of nursing practice through research, innovation, and professional involvement.
4. Enhance collaboration and teamwork abilities by preparing graduates to work effectively as integral members of multidisciplinary healthcare teams.
5. Promote cultural competence and ensure graduates can communicate effectively and provide compassionate care to patients from diverse cultural and socio-economic backgrounds.

GRADUATE ATTRIBUTES

1. Comprehensive nursing knowledge.
2. Critical thinking and problem solving
3. Clinical Competency
4. Effective professional communication
5. Ethical and professional practice
6. Multidisciplinary teamwork.
7. Commitment to lifelong learning
8. Cultural competence and community involvement
9. leadership and advocacy
10. Research and evidence-based practice

PROGRAM OUTLINE

This is a standard four-year, 130-credit bachelor program that incorporates a variety of theoretical, practical, and clinical learning experiences. It is designed for high school graduates. The curriculum is designed to prepare students for working with individuals and families and collaborating with interprofessional teams within the growing and changing healthcare environment. In addition to patient and population care skills, graduates are expected to develop a number of soft skills, including communication, critical thinking, research, and leadership and management. The language of instruction in the program is English.

The first two years of the program focus on providing the foundation for professional nursing education. This includes courses in behavioral sciences, scientific English language, Islamic ethics, communication skills, biological and nursing sciences, and computer sciences. The last two years of the program focus on nursing sciences. This is where students acquire knowledge, attitude, and skills necessary to provide care for acute, chronic, and complex health problems of individuals, families, and community. The students engage in hands-on practice in various hospital departments relevant to their courses throughout the program. In their final semester of Year 4, they will work full-time in a hospital setting under close supervision, gaining comprehensive, real-world experience in clinical care aligned with their course requirements.

PROGRAM COMPETENCIES

To develop a core curriculum for the BSN program, AGU has adopted its own Nursing Competency Framework through benchmarking international standards, such as those established by the American Association of Colleges of Nursing) as well as regional frameworks. This framework offers a comprehensive paradigm for Nursing competencies encompassing various roles that address community expectations for the future nurses. notably, the framework is designed as a spiral model, with the eight areas of competencies being interrelated rather than presented in a sequential or arranged manner.



Figure 2: Program competency domains

1. Knowledge for Nursing Practice

Nursing graduates need to be able to use their knowledge and skills to provide patient-centered care. This includes knowledge of the nursing process, nursing theories, and evidence-based practice. Nursing graduates also need to be able to assess patients, develop and implement nursing care plans, and evaluate patient outcomes.

2. Person-Centered Care

Nursing graduates need to be able to provide care that is tailored to the individual needs and preferences of patients and their families. This includes understanding the patient's culture, values, and beliefs. Nursing graduates also need to be able to communicate effectively with patients and their families and involve them in decision-making about their care.

3. Community Health

Nursing graduates need to be able to understand and address the health needs of populations. This includes understanding the social determinants of health, such as poverty, education, and access to healthcare. Nursing graduates also need to be able to evaluate community needs, develop and implement preventive interventions to improve the health of populations.

4. Scholarship for Nursing Discipline

Nursing graduates need to be able to contribute to the nursing discipline through scholarship and research. Understanding the research process, being able to critically evaluate research findings, and seeking continuous professional development will enable nurses to become lifelong learners.

5. Quality and Safety

Nursing graduates need to be able to provide safe and high-quality care. This includes understanding and implementing patient-safety guidelines and quality improvement initiatives. Nursing graduates also need to be able to identify and report potential patient safety hazards.

6. Informatics and Healthcare Technologies

Nursing graduates need to be able to use informatics and healthcare technologies to provide safe and effective care. This includes being able to use electronic health records, computerized physician order entry, and clinical decision support systems. Nursing graduates also need to be able to use telehealth and other technologies to provide care to patients when needed.

7. Ethics and Professionalism

Nursing graduates need to be able to practice nursing in an ethical and professional manner. This includes understanding and adhering to the nursing code of ethics and the laws and regulations governing nursing practice. Nursing graduates also need to be able to advocate for patients and their families.

8. Leadership and Interprofessional Partnership

Nursing graduates need to be able to lead and work effectively as part of an interprofessional team. This includes being able to communicate effectively with other healthcare professionals, share decision-making, and coordinate care. Nursing graduates also need to be able to advocate for the nursing profession.

PROGRAM LEARNING OUTCOMES

By the end of the program, graduates will be able to achieve the following learning outcomes under each competency domain.

Knowledge for Nursing Practice
Identify concepts of nursing, basic health, social and humanistic sciences to form a comprehensive nursing knowledge base.
Utilize knowledge and critical thinking in the nursing process, including assessment, diagnosis, planning, implementation, and evaluation.
Apply evidence-based decision to provide holistic nursing interventions for individual, families, and communities
Person-Centered Care
Design, implement, and evaluate person-centered nursing care that aligns with evidence-based practices.
Communicate effectively with individual, families, and community using context-appropriate modalities.
Apply ethical, cultural, and compassionate values in all nursing practices.
Community Health
Demonstrate effective collaboration with health professionals to address community health issues and advocate for policies promoting health equity.
Discuss changes in conditions that might indicate a disaster or public health emergency.
Scholarship for Nursing Discipline
Engage in research relevant to nursing practice and healthcare needs across the lifespan, synthesizing and translating findings to improve health outcomes and support Evidence-based practice.
Quality and Safety
Apply principles of patient safety and continues quality improvement to minimize risks and enhance care quality in diverse healthcare settings.
Informatics and Healthcare Technologies
Utilize telehealth and digital technology in nursing education, practice, and research.
Apply ethical, legal, professional, and regulatory standards, to ensure safe, confidential and effective use of healthcare technologies.
Ethics and Professionalism
Apply the principle of ethics, law, and professionalism across all nursing roles.
Demonstrate accountability, autonomy, a commitment to lifelong learning, collaboration and professional development to continually advance nursing practice.
Leadership and Interprofessional Partnership

Demonstrate teamwork and leadership skills to meet the health needs of individuals, families and communities and to contribute to effective interprofessional collaboration.

ALIGNMENT OF PLOS WITH NATIONAL QUALIFICATION FRAMEWORK

The Program Learning Outcomes (PLOs) have been reclassified according to the National Framework of Qualifications (NFQ) in Bahrain to clearly specify what faculty expect students in the program to know, be able to do, or demonstrate as a result of successfully completing the program. This reclassification focuses on three key areas: knowledge, skills, and competencies. By aligning the PLOs with the NFQ, the program ensures that students are equipped with the comprehensive competencies needed for their professional practice and personal development.

Code	Program Learning Outcomes (PLOs)
1	Knowledge
1.1	K1. Identify concepts of nursing, basic health, social and humanistic sciences to form a comprehensive nursing knowledge base.
1.2	K2. Discuss changes in conditions that might indicate a disaster or public health emergency.
2	Skills
2.1	S1. Utilize knowledge and critical thinking in the nursing process, including assessment, diagnosis, planning, implementation, and evaluation.
2.2	S2. Apply evidence-based decision to provide holistic nursing interventions for individual, families, and communities
2.3	S3. Design, implement, and evaluate person-centered nursing care that aligns with evidence-based practices.
2.4	S4. Communicate effectively with individual, families, and community using context-appropriate modalities.
2.5	S5. Demonstrate effective collaboration with health professionals to address community health issues and advocate for policies promoting health equity.
2.6	S6. Engage in research relevant to nursing practice and healthcare needs across the lifespan, synthesizing and translating findings to improve health outcomes and support Evidence-based practice
2.7	S7. Apply principles of patient safety and continues quality improvement to minimize risks and enhance care quality in diverse healthcare settings.
2.8	S8. Utilize telehealth and digital technology in nursing education, practice, and research.
3	Competencies
3.1	C1. Apply ethical, cultural, and compassionate values in all nursing practices.
3.2	C2. Apply ethical, legal, professional, and regulatory standards, to ensure safe, confidential and effective use of healthcare technologies.
3.3	C3. Demonstrate accountability, autonomy, a commitment to lifelong learning, collaboration and professional development to continually advance nursing practice.
3.4	C4. Demonstrate teamwork and leadership skills to meet the health needs of individuals, families and communities and to contribute to effective interprofessional collaboration.

NQF KEY LEARNING OUTCOMES

List the NCAAA Key Learning Outcomes

Code	Key Learning Outcomes (NCAAA)
1	KLO 1: Demonstrate understanding of concepts, theories and principles of nursing, social, behavioral, and medical sciences that underpin nursing practices.
2	KLO2: Comprehend physiological, psychological, social, spiritual, cultural needs of individuals, families, and communities in relation to disease prevention, health promotion and health education.
3	KLO 3: Apply critical thinking and evidence-based clinical judgment in providing safe and quality care to individuals, families, and communities.
4	KLO4: Conduct scientific research and scholarly activities through critiquing, analyzing, interpreting, and disseminating the findings.
5	KLO 5: Construct, implement and evaluate client/patient-centered and culturally sensitive comprehensive nursing care based on best practices.
6	KLO6: Perform essential nursing procedures safely on various clients/patients from different cultural background at different settings.
7	KLO7: Communicate effectively with clients/patients, families, and intra-professional team members using different modalities.
8	KLO 8: Utilize current and evolving technologies and information systems efficiently in nursing practices.
9	KLO9: Adhere to principles of safety, ethics, rules and regulations of nursing practice and quality nursing care at various healthcare settings.
10	KLO10. Demonstrate leadership, autonomy, accountability, commitment, collaboration, and professional development to enhance nursing practices.

KEY LEARNING OUTCOMES ALIGNMENT

Show the Alignment between the Program Learning Outcomes and the NCAAA Key Learning Outcomes.

Program Learning Outcomes		Key Learning Outcomes (NCAAA)									
Code	PLO	1	2	3	4	5	6	7	8	9	10
1	K1 Identify concepts of nursing, basic health, social and humanistic sciences to form a comprehensive nursing knowledge base.	√									
2	K2. Discuss changes in conditions that might indicate a disaster or public health emergency.		√								
3	S1. Utilize knowledge and critical thinking in the nursing process, including assessment, diagnosis, planning, implementation, and evaluation.			√							
4	S2. Apply evidence-based decision to provide holistic nursing interventions for individual, families, and communities			√		√					
5	S3. Design, implement, and evaluate person-centered nursing care that aligns with evidence-based practices.					√	√				
6	S4. Communicate effectively with individual, families, and community using context-appropriate modalities.							√			
7	S5. Demonstrate effective collaboration with health professionals to address community health issues and advocate for policies promoting health equity.							√			
8	S6. Engage in research relevant to nursing practice and healthcare needs across the lifespan, synthesizing and translating findings to improve health outcomes and support Evidence-based practice				√						
9	S7. Apply principles of patient safety and continues quality improvement to minimize risks and enhance care quality in diverse healthcare settings.									√	
10	S8. Utilize telehealth and digital technology in nursing education, practice, and research.								√		
11	C1. Apply ethical, cultural, and compassionate values in all nursing practices.					√				√	
12	C2. Apply ethical, legal, professional, and regulatory standards, to ensure safe, confidential and effective use of healthcare technologies.								√	√	
13	C3. Demonstrate accountability, autonomy, a commitment to lifelong learning, collaboration and professional development to continually advance nursing practice.										√
14	C4. Demonstrate teamwork and leadership skills to meet the health needs of individuals, families and communities and to contribute to effective interprofessional collaboration.										√

CURRICULUM

1. Curriculum Structure

Program Structure	Required/ Elective	No. of Courses	Credit Hours	Percentage
University Requirements (UR)	Required	6	14 (14+0+0)	11.02%
	Elective	-	-	-
Program Requirements (PR)	Required	25	91 (60+11+20)	71.65%
	Elective	2	5 (4+0+1)	3.93%
Field Training/Internship	Required	1	17(0+0+17)	13.38%
Total		34	127 (78+15+38)	100%

2. Program Courses

Level	Course Code	Course Title	Required or Elective	Pre- Requisite Courses	Credit Hours
Year 1					
Level 1	ENGL101	English I	Required	None	3 (3+0+0)
	ENGL102	Medical Terminology for Nursing	Required	None	1 (1+0+0)
	ANAT101	Anatomy and Physiology I	Required	None	4 (3+1+0)
	CHEM101	Biochemistry	Required	None	2 (2+0+0)
	NURS101	Introduction to the Nursing Profession	Required	None	3 (3+0+0)
	MEDU101	Study Skills	Required	None	2 (2+0+0)
Total Credits Hours Per Semester					15
Level 2	ENGL103	English II	Required	None	4 (4+0+0)
	ANAT102	Anatomy and Physiology II	Required	None	4 (3+1+0)
	BESC101	Behavioral Sciences	Required	None	2 (2+0+0)
	NURS102	Fundamental of Nursing Practice	Required	None	5 (2+3+0)
	COMP101	Computer skills	Required	None	2(1+1+0)
Total Credits Hours Per Semester					17
Total Credits Hours					32

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Year 2					
Level 3	PATH201	Pathophysiology	Required	NURS101	2 (2+0+0)
	MICR201	Microbiology and Infection Control	Required	NURS101	2 (2+0+0)
	NURS201	Health assessment	Required	NURS101 NURS102	5 (2+3+0)
	NURS202	Growth and Development	Required	None	2 (2+0+0)
	NURS203	Communication Skills	Required	None	2(2+0+0)
	ISLM101	Islamic Ethics and Human Rights	Required	None	2 (2+0+0)
Total Credits Per Semester					15
Level 4	PHAR201	Pharmacology	Required	None	3 (3+0+0)
	NURS204	Clinical Nutrition	Required	NURS102 CHEM101	2 (2+0+0)
	NURS205	Medical/ Surgical Nursing I	Required	NURS101 NURS102	6 (3+0+3)
	FAMM201	Epidemiology and Biostatistics	Required	NURS101 NURS102	3 (2+1+0)
	NURS206	Healthcare Technology	Required	COMP101	2 (2+0+0)
Total Credits Hours Per Semester					16
Total Credits Hours					31

NB: Basic Life Support (BLS) course is required before starting the second semester of Year 2.

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Year 3					
Level 5	NURS301	Medical/ Surgical Nursing II	Required	NURS205	6 (3+0+3)
	NURS302	Nursing Research and Evidence-Based Practice	Required	FAMM201	3 (3+0+0)
	NURS303	Geriatric Nursing	Required	NURS201 NURS205	4 (2+0+2)
	NURS304	Elective Courses to Choose From: - Emerging Technologies for Healthcare.	Elective	None	2 (2+0+0)
	NURS305	- Entrepreneurship in Healthcare.			
	NURS306	- Foundations of Disability Education			
Total Credits Hours Per Semester					
Level 6	NURS307	Pediatric Nursing	Required	NURS201 NURS202 NURS301	5 (3+0+3)
	NURS308	Maternity Nursing	Required	NURS205 NURS301	5 (3+0+3)
	NURS309	Critical Care Nursing	Required	NURS205 NURS301	5 (3+0+3)
Total Credits Hours Per Semester					18
Total Credits Hours					33

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Year 4					
Level 7	NURS401	Psychiatric and Mental Health	Required	NURS205 NURS301	5 (3+0+2)
	NURS402	Community Health Nursing	Required	NURS307 NURS308	5 (3+0+2)
	NURS403	Nursing Management and Leadership	Required	None	4 (2+0+2)
		Clinical Elective to Choose from:	Elective	None	3 (2+0+1)
	NURS404	-Renal Dialysis			
	NURS405	- Pain Management			
	NURS406	- Diabetes Care and Management			
Total Credits Hours Per Semester					17
Level 8	NURS407	Integrative Practicum	Required	All Courses	17 (0+0+17)
Total Credits Per Semester					17
Total Credits Hours					32

Program Learning Outcomes Mapping Matrix

Align the program learning outcomes are aligned with the program courses, according to the following desired levels of performance (I= Introduced, P= Practiced, M= Mastered).

[illegible]

COURSES DESCRIPTION

1. **ENGL101 English I (3 Credit Hours):** 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.
2. **ENGL102 Medical Terminology for Nursing (1 Credit Hours):** 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.
3. **ANAT101 Anatomy and Physiology I (4 Credit Hours):** 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.
4. **CHEM101 Biochemistry (2 Credit Hours):** 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.

5. **NURS101 Introduction to the Nursing Profession (3 Credit Hours):** 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.
6. **MEDU101 Study Skills (2 Credit Hours):** 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.
7. **ENGL103 English II (4 Credit Hours):** 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.
8. **ANAT102 Anatomy and Physiology II (4 Credit Hours):** 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.
9. **BESC101 Behavioral Science (2 Credit Hours):** 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.

- 10. NURS102 Fundamental of Nursing Practice (5 Credit Hours):** 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.
- 11. COMP101 Computer Skills (2 Credit Hours):** 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.
- 12. PATH201 Pathophysiology (2 Credit Hours):** 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.
- 13. MICR201 Microbiology and Infection Control (2 Credit Hours):** 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.
- 14. NURS201 Health Assessment (5 Credit Hours):** 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.
- 15. NURS202 Growth and Development (2 Credit Hours):** 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.

- 16. NURS203 Communication Skills (2 Credit Hours):** 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.
- 17. 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.
- 18. 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.
- 19. NURS204 Clinical Nutrition (2 Credit Hours):** 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.
- 20. NURS205 Medical/Surgical Nursing I (6 Credit Hours):** 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.
- 21. FAMM201 Epidemiology and Biostatistics (3 Credit Hours):** 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.

- 22. NURS206 Healthcare Technologies (2 Credit Hours):** 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
- 23. NURS301 Medical/Surgical Nursing II (6 Credit Hours):** 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.
- 24. NURS302 Nursing Research & Evidence-Based Practice (3 Credit Hours):** 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.
- 25. NURS303 Geriatric Nursing (4 Credit Hours):** 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.
- 26. NURS304 Emerging Technologies for Healthcare (2 Credit Hours):** 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.
- 27. NURS305 Entrepreneurship in Healthcare (2 Credit Hours):** 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.

- 28. NURS306 Foundations of Disability Education (2 Credit Hours):** 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.
- 29. NURS307 Pediatric Nursing (6 Credit Hours):** 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 pediatric 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.
- 30. NURS308 Maternal Health (6 Credit Hours):** 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.
- 31. NURS309 Critical Care Nursing (6 Credit Hours):** 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.
- 32. NURS401 Psychiatric & Mental Health (5 Credit Hours):** 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.

- 33. NURS402 Community Health Nursing (5 Credit Hours):** 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.
- 34. NURS403 Nursing Management & Leadership (4 Credit Hours):** 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.
- 35. NURS404 Renal Dialysis (3 Credit Hours):** 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.
- 36. NURS405 Pain Management (3 Credit Hours):** 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.
- 37. NURS406 Diabetes Care and Management (3 Credit Hours):** 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, ²⁵lifestyle 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.

38. NURS407 Integrative Practice (17 Credit Hours): This course is designed to provide students with an 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.

TEACHING METHODS

A variety of teaching/learning methods will be employed in the program. Interactive learning and student engagement are at the heart of such methods. Types of educational sessions include:

- Interactive lectures.
- Flipped learning sessions.
- Small group sessions.
- Student-led seminars.
- Practical sessions in basic sciences labs.
- Simulation-based training sessions.
- Clinical placements in health care facilities
- Interprofessional sessions with medical and other health professions students.

A Blended learning strategy will be employed, where face-to-face sessions are mixed with an e-learning component (through a Learning Management System – LMS).

ASSESSMENT METHODS

Students will be assessed in the theoretical, practical, and clinical components of the program through continuous and summative (end-of-course) authentic assessments. Computer-based assessment will be used whenever possible through assessment software (like ExamSoft).

Continuous assessment will include mid-term exams, workplace-based assessment methods, and portfolio assessment.

Assessment tools will include Multiple-Choice Questions (MCQs) for applied knowledge and Objective Structured Clinical Examination (OSCE) to evaluate a wide range of competencies and skills including communication, patient care, and professionalism.

ADMISSION REQUIREMENTS

1. The applicant is a citizen of one of the GCC countries or a citizen of an Arab country who is a resident in one of the GCC countries.
2. Applicants must have a recent High school certificate (science track) with a grade not less than 80%.
3. High school certificates must have been obtained within two years before application.
4. Nomination/no objection letter from the Ministry of Education of the applicant's country (GCC citizens).
5. Final acceptance shall be made after evaluating each candidate's:
 - a. Performance in admission interviews.
 - b. Performance in admission examination.
6. Applicants must be physically fit.

GRADUATION REQUIREMENTS

- The average period for the completion of the BSN is four academic years divided into eight semesters. A semester is sixteen weeks in duration exclusive of registration and examination periods.
- Completion of the total program credit hours (127 Credit Hours) is required for the BSN degree.
- Six months of nursing internship is required to earn the BSN degree in nursing.

BSN Program Governance, Monitoring, and Evaluation

An academic committee will be formed to ensure that the program is executed at the acceptable standards of Health Professions Education to fulfill its learning outcomes.

The academic committee will be responsible for:

- **Developing the monitoring and evaluation processes for the program including:**
 - Developing Key Performance indicators (KPIs) for the program representing different aspects of the program.
 - Employing a diverse range of direct evaluation measures like standardized exams, performance assessments, portfolios, and clinical evaluations.
 - Combining direct measures with indirect measures like surveys, interviews, focus groups, and alumni outcomes data to maximize the validity and reliability of the results.
- **Collecting and analyzing program evaluation data:**
 - Establishing a systematic data collection process, using appropriate tools and technologies.
 - Ensuring data is collected at multiple points and from different sources throughout the program, including pre-admission, formative checkpoints, and post-graduation.
 - Analyzing data using appropriate statistical methods and qualitative analysis techniques.

- **Interpreting and reporting findings:**
 - Interpreting data in relation to the program's learning outcomes and established benchmarks.
 - Identifying areas where students are excelling and areas that need improvement.
 - Clearly communicating evaluation findings in reports and presentations to stakeholders.
- **Utilizing evaluation results for reform and development:**
 - Integrating evaluation findings into program planning and decision-making processes.
 - Using data to inform curriculum revisions, teaching strategies, and student support services.
 - Utilizing findings to inform resource allocation and program marketing strategies.
 - Tracking progress over time to assess the effectiveness of implemented changes.
- **Continuous improvement of the evaluation plan:**
 - Regularly reviewing and refining the evaluation plan based on experience and emerging best practices.
 - Foster collaboration and shared responsibility for program improvement among all stakeholders.
- **Accreditation of the program:**
 - Fulfilling the requirements of the AGU's Quality Assurance Center for preparation for the accreditation of the program.
 - Applying for international accreditation from the Accreditation Commission for Education in Nursing (ACEN) after graduating the first batch.
 - ACEN 2023 STANDARDS AND CRITERIA for accreditation were considered while preparing the program and will be part of the evaluation plan of the assigned committee.
- **Outlining a risk management and mitigation plan that includes:**
 - Risk identification, including academic risks, financial risks, clinical risks, and reputational risks.
 - Risk assessment using suitable tools to calculate the likelihood, impact, and severity.
 - Risk mitigation strategies of different levels (high-risk strategies, medium-risk strategies, and low-risk strategies).
 - Monitoring and reviewing mitigation strategies, conducting periodic risk assessments to identify new or emerging risks, adapting, and updating risk management plan as needed.
 - Consolidation of achievements and celebrating successes and milestones

achieved through risk mitigation efforts.

Program Resources and Budget Allocation

The program will primarily utilize the facilities, infrastructure, and resources available at the CMMS-AGU, such as: Medical Skills and Simulation Center, lecture halls, basic science laboratories, English language laboratory, and anatomy museum.

A budget will be allocated from the administration of the AGU based on the expected number of students and faculty (full- and part-time).

References

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3. American Association of Colleges of Nursing. Curriculum mapping toolkit. <https://www.aacnnursing.org/essentials/tool-kit/curriculum-mapping-tools> Accessed on 3/12/2023
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Application

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Information About the Program

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