



Academic Programs Booklet

College of Health and Sport Sciences

2025-2026

Prepared By: VP For Academic Programs and Graduate Studies Office

College of Health and Sport sciences.....

LIST OF MASTERS PROGRAMERROR! BOOKMARK NOT DEFINED.

MASTER OF SCIENCE IN ADULT HEALTH ADVANCED PRACTICE NURSING - MINORS IN CRITICAL CARE NURSING, CARDIOVASCULAR CARE NURSING, NEPHROLOGY NURSING AND EMERGENCY NURSING PROGRAM3

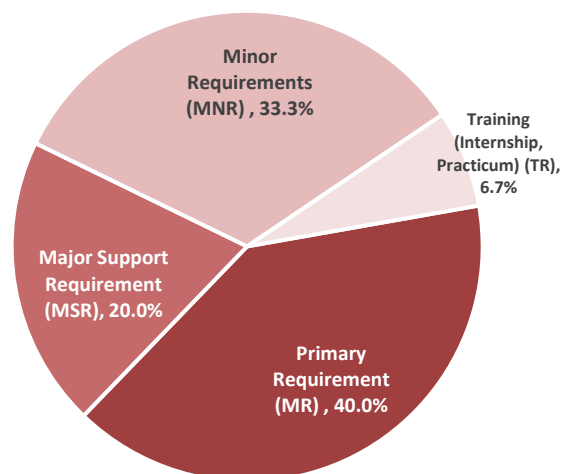
PROGRAM COMPONENTS 2

DETAILED STUDY PLAN 2-4

Course Description 5-10

Master of Science in Adult Health Advanced Practice Nursing - Minors in Critical Care Nursing, Cardiovascular Care Nursing, Nephrology Nursing and Emergency Nursing Program Components

Course Type	Credit Hours
University Requirements (UR)	-
College Requirements (CR)	-
Major Requirement (MR)	18
Major Support Requirement (MSR)	9
Major Elective (ME)	-
Minor Requirements (MNR)	15
Minor Elective (MNE)	-
General Studies Compulsory (GSCC)	-
General Studies Elective (GSE)	-
Training (Internship, Practicum) (TR)	3
Total Credit (CRD)	45



Detailed Study Plan

Study Plan A

Year 1- Semester 1

Course Code	Course Title	Course Hours				Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam (Yes/No)	Department Offering
		LEC	LAB	CLN	CRD						
NUR602	Advanced Health Assessment	2	0	3	3	MR	-	-	Yes	Yes	Nursing
NUR611	Introduction to Advanced Practice Nursing	3	0	0	3	MR	-	-	Yes	Yes	Nursing
NUR603	Pathophysiology for Advanced Practice Nursing	3	0	0	3	MSR	-	-	Yes	Yes	Nursing
PHAM601	Pharmacology for Advanced Practice Nursing	3	0	0	3	MSR	-	-	Yes	Yes	Allied Health

Year 1- Semester 2

Course Code	Course Title	Course Hours				Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam	Department Offering
		LEC	LAB	CLN	CRD						
NUR615	Advanced Nursing Research and Evidence-Based Practice	3	0	0	3	MR	-	-	Yes	Yes	Nursing
NUR612	Advanced Adult Health Nursing	3	0	0	3	MR	-	-	Yes	Yes	Nursing
Critical Care Nursing Stream											
CRN601	Advanced Critical Care Nursing I	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
CRN602	Advanced Critical Care Nursing - Practicum I	0	0	9	3	MNR	-	CRN601	Yes	Yes	Nursing
Cardiovascular Care Nursing Stream											
CCN601	Cardiovascular Care Nursing I	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
CCN602	Cardiovascular Care Nursing Practicum I	0	0	9	3	MNR	-	CCN601	Yes	Yes	Nursing
Nephrology Nursing Stream											
NEPH601	Nephrology Nursing, I	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
NEPH602	Nephrology Nursing Practicum I	0	0	9	3	MNR	-	NEPH601	Yes	Yes	Nursing
Emergency Nursing Care Stream											
EMRN601	Emergency Nursing Care I	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
EMRN602	Emergency Nursing Care -Practicum I	0	0	9	3	MNR	-	EMRN601	Yes	Yes	Nursing

Year 2- Semester 3

Course Code	Course Title	Course Hours				Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam	Department Offering
		LEC	LAB	CLN	CRD						
NUR620	Statistical Reasoning and Application in Nursing Research	2	2	0	3	MSR	-	-	Yes	Yes	Nursing
Critical Care Nursing Stream											
CRN603	Advanced Critical Care Nursing II	3	0	0	3	MNR	None	None	Yes	Yes	Nursing
CRN604	Advanced Critical Care Nursing - Practicum II	0	0	9	3	MNR	None	CRN603	Yes	Yes	Nursing
CRN605	Consolidated Critical Care Nursing Practicum	0	0	9	3	MNR	CRN602	CRN603	Yes	Yes	Nursing
Cardiovascular Care Nursing Stream											
CCN603	Cardiovascular Care Nursing II	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
CCN604	Cardiovascular Care Nursing Practicum II	0	0	9	3	MNR	-	CCN603	Yes	Yes	Nursing
CCN605	Cardiovascular Care Nursing III	3	0	0	3	MNR	-	CCN603	Yes	Yes	Nursing
Nephrology Nursing Stream											
NEPH603	Nephrology Nursing II	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
NEPH604	Nephrology Nursing Practicum II	0	0	9	3	MNR	-	NEPH603	Yes	Yes	Nursing
NEPH605	Consolidated Practicum in Nephrology Nursing	0	0	9	3	MNR	NEPH602	NEPH603	Yes	Yes	Nursing
Emergency Nursing Care Stream											
EMRN603	Emergency Nursing Care II	3	0	0	3	MNR	-	-	Yes	Yes	Nursing
EMRN604	Advanced Emergency Nursing	3	0	0	3	MNR	-	EMRN603	Yes	Yes	Nursing
EMRN605	Emergency Nursing Care -Practicum II	0	0	9	3	MNR	-	EMRN603	Yes	Yes	Nursing

Year 2- Semester 4

Course Code	Course Title	Course Hours					Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam	Department Offering
		LEC	LAB	INT	GTD	CRD						
NUR630	Clinical Residency	0	0	36	0	3	TR	-	-	Yes	No	Nursing
NUR621	Thesis	0	0	0	18	6	MR	-	-	No	No	Nursing

* Study Plan B

Year 1- Semester 1

Course Code	Course Title	Course Hours				Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam (Yes/No)	Department Offering
		LEC	LAB	CLN	CRD						
NUR611	Introduction to Advanced Practice Nursing	3	0	0	3	MR	-	-	Yes	Yes	Nursing
NUR612	Advanced Adult Health Nursing	3	0	0	3	MR	-	-	Yes	Yes	Nursing
NUR603	Pathophysiology for Advanced Practice Nursing	3	0	0	3	MR	-	-	Yes	Yes	Nursing
PHAM604	Pharmacology for Advanced Practice Nursing	3	0	0	3	MR	-	-	Yes	Yes	Allied Health

Year 1- Semester 2

Course Code	Course Title	Course Hours					Course Type	Pre-Requisite	Co-Requisite	Major CGPA	Final Exam	Department Offering
		LEC	LAB	INT	GTD	CRD						
NUR620	Statistical Reasoning and Application in Nursing Research	2	2	0	0	3	MR	-	-	Yes	Yes	Nursing
NUR630	Clinical Residency	0	0	36	0	3	TR	-	-	Yes	No	Nursing
NUR621	Thesis	0	0	0	18	6	MR	-	-	No	No	Nursing

* Study Plan A for Bachelor of Science in Nursing Holders
 Study Plan B for Postgraduate Diploma Holders

Course Description

Course Code:NUR602 **Course Title: Advanced Health Assessment**

Develop advanced knowledge and skills in conducting comprehensive health assessments for clients with different conditions. Apply various assessment techniques and communication skills to appraise clients' health status. Utilize critical thinking to identify clients' problems by analyzing findings of the health history, physical examination, and related diagnostic tests. Synthesize the health assessment findings for formulating priority nursing diagnoses and planning effective nursing care.

Course Code: NUR611 **Course Title: Introduction to Advanced Practice Nursing**

This course provides a comprehensive overview of advanced practice nursing, focusing on historical development, scope of practice, and core competencies. It covers role development, models, and regulatory, legal, and credentialing requirements of advanced practice nurses. Additionally, the course examines the history and evolution of nursing theory, emphasizing its relevance to advanced practice. Students will be able to apply different nursing theories in clinical practice, education, research, and administration to enhance patient care.

Course Code: NUR612 **Course Title: Advanced Adult Health Nursing**

This course equips students with advanced knowledge on the common medical- surgical health conditions affecting different body systems. Students will be able to formulate differential diagnoses based on a thorough analysis of the clinical manifestations and diagnostic findings, with a focus on the prevention of complications and the optimal patients' clinical outcomes. Students scrutinize the collaborative management of each disease with emphasis on the role of the Advanced Practice Nurse within the multidisciplinary healthcare team. The nursing process approach, the evidence-based practice and clinical guidelines are utilized as a framework for providing advanced nursing care.

Course Code: NUR615 **Course Title: Advanced Nursing Research and Evidence-based Practice**

Provide advanced knowledge of nursing research approaches, methodologies, ethics, and evidence-based practice. Apply the research process in designing a systematic research plan in the field of nursing and critiquing different aspects of nursing research articles.

Course Code: PHAM604 **Course Title: Pharmacology for Advanced Practice Nursing**

This course provides nursing students with advanced knowledge of pharmacokinetics, pharmacodynamics, and pharmacotherapeutics. It covers major drug classifications, focusing on indications, contraindications, side effects, and potential drug interactions. The course

emphasizes evidence-based practices for managing various adult health problems and highlights the ethical, legal, and regulatory aspects of safe medication administration, patient education, and monitoring to ensure patient safety. Students will also articulate the role of the advanced practice nurse in pharmacological interventions while considering relevant healthcare regulations.

Course Code: NUR603 **Course Title: Pathophysiology for Advanced Practice Nursing**

This course equips students with advanced knowledge of the etiology and the pathogenesis of common health problems affecting adult patients across various body systems. Students apply their critical thinking skills in relating the complexity of pathophysiological changes to the clinical manifestations, complications, and diagnostic findings. They also investigate therapeutic approaches and evidence-based practices in managing complex health conditions.

Course Code: NUR620 **Course Title: Statistical Reasoning and Applications in Nursing Profession**

This course equips nursing students with advanced statistical reasoning skills essential for nursing research. It encompasses a thorough examination of descriptive and inferential statistics, and the interpretation of statistical results. Students will delve into the application of different statistical methods using quantitative data analysis software for generating evidences to make informed clinical decisions.

Critical Care Nursing Stream

Course Code: CRN602 **Course Title: Advanced Critical Care Nursing - Practicum I**

Integrate theoretical concepts into clinical patient care situations. Utilize the nursing process approach as a framework for delivering competent nursing care based on thorough assessment in accordance with current evidence and clinical guidelines. Apply contemporary soft skills in the care of critically ill patients in highly technological critical care environments within ethical and legal principles.

Course Code: CRN603 **Course Title: Advanced Critical Care Nursing II**

Develop advanced knowledge on the common critical conditions affecting neurological, gastrointestinal, endocrine, and haematological systems as well as multisystem dysfunctions. Utilize the nursing process approach in formulating nursing care for critically ill patients. Apply clinical Reasoning, decision-making and collaborative skills in analysing the different critical conditions.

Course Code: CRN604 **Course Title: Advanced Critical Care Nursing - Practicum II**

Apply advanced theoretical knowledge in the care of patients with critical conditions. Demonstrate competency in the delivery of specialized nursing care in complex critical care environments using a nursing process approach. Integrate evidence-based practice, current

clinical guidelines, and professional nursing standards in the care of patients with life-threatening conditions. Utilize contemporary soft skills and advanced technology in the care of critically ill patients while adhering to ethical and legal principles.

Course Code **CRN605** **Course Title: Consolidated Critical Care Nursing Practicum**

Incorporate the cumulative specialized knowledge and competencies in the care of patients with a wide range of critical conditions. Demonstrate proficiency in appraising the clinical parameters and findings of the different diagnostic measures for providing effective nursing care independently in diverse critical care settings. Utilize clinical judgment, decision-making, collaborative, and leadership skills in the delivery of evidence-based nursing practice within the ethical and legal frameworks.

Cardiovascular Care Nursing Stream

Course Code: **CCN601** **Course Title: Cardiovascular Care Nursing I**

This course provides students with in-depth knowledge of the anatomy and physiology of the cardiovascular system, assessment approaches, hemodynamic monitoring, and diagnostic measures. Students will examine the collaborative multidisciplinary management of complex cardiovascular conditions such as arrhythmias and coronary vascular disorders, emphasizing the role of Advanced Practice Nurses. By the end of this course, students will be able to formulate evidence-based nursing care for patients with arrhythmias and coronary vascular disorders.

Course Code: **CCN602** **Course Title: Cardiovascular Care Nursing Practicum I**

This practicum course provides students with opportunities to integrate theoretical knowledge and skills into clinical nursing practice in diverse cardiovascular care settings. Students will demonstrate proficiency in cardiac assessment and Electrocardiography interpretation. Throughout the clinical experience, students will apply their critical thinking and decision-making skills in the care of patients with cardiovascular diseases in accordance with ethical principles and legal regulations. By the end of the course, students will be able to provide specialized cardiovascular nursing care based on current evidence and clinical guidelines and within the nursing process approach.

Course Code: **CCN603** **Course Title: Cardiovascular Care Nursing II**

This course focuses on structural heart diseases, heart failure, and cardiac emergencies. It also covers the pharmacological treatments, surgical interventions, complementary and alternative therapies for managing different cardiovascular disorders. Students will analyze the collaborative management and evidence-based practice in the management of various cardiovascular conditions emphasizing the role of Advanced Practice Nurses. By the end of the course, students will be able to formulate specialized cardiac nursing care using their critical thinking and decision-making skills.

Course Code: CCN604 Course Title: Cardiovascular Care Nursing Practicum II

This course enables students to incorporate cumulative specialized knowledge and competencies in caring for patients with a wide range of cardiovascular conditions. Throughout the clinical experience, students will utilize clinical judgment, leadership, and collaborative skills in the delivery of cardiovascular nursing care within the ethical and legal frameworks. By the end of this course, students will demonstrate proficiency in appraising the clinical parameters and findings of the different diagnostic measures and providing specialized evidence-based nursing care independently in diverse cardiovascular care settings.

Course Code: CCN605 Course Title: Cardiovascular Care Nursing III

This course equips students with advanced knowledge of the anatomy and physiology of the vascular system and analyzes various vascular disorders, including arterial, venous, and lymphatic conditions. The course also covers the risk factors of cardiovascular diseases, such as hypertension, dyslipidemia, diabetes mellitus, and obesity, emphasizing secondary prevention strategies through exercise and lifestyle modifications. The key focus is exploring evidence-based cardiac rehabilitation programs for enhancing recovery and preventing the recurrence of cardiac attacks.

Nephrology Nursing Stream

Course Code: NEPH601 Course Title: Nephrology Nursing, I

Analyze the anatomy and physiology of the kidney and urinary tract, emphasizing the assessment of kidney and urinary functions. Develop in-depth knowledge on the pathophysiology, diagnostic measures and the multidisciplinary management of various kidney diseases emphasizing renal replacement therapy and kidney transplantation. Examine the nephrology nurse's role in providing patient-centered care for various kidney diseases including acute kidney injury and end-stage kidney disease.

Course Code: NEPH602 Course Title: Nephrology Nursing Practicum I

Develop advanced clinical skills in the assessment and management of patients with various kidney diseases. Utilize the nursing process approach to provide evidence-based care for patients undergoing renal replacement therapy such as hemodialysis, peritoneal dialysis, and kidney transplantation. Demonstrate critical thinking and therapeutic communication skills while approaching diverse populations and healthcare team members in nephrology settings.

Course Code: NEPH603 Course Title: Nephrology Nursing II

Develop advanced knowledge in the management of patients with urinary disorders. Utilize clinical reasoning, decision-making, and collaborative skills to analyze different urinary tract

conditions. Apply the nursing process approach in formulating nursing care for patients with urinary disorders.

Course Code: **NEPH604** **Course Title:** **Nephrology Nursing Practicum II**

Apply advanced theoretical knowledge in the care of patients with various kidney diseases. Demonstrate competency in the delivery of specialized nursing care in complex nephrology care settings using the nursing process approach. Integrate evidence-based practice, current clinical guidelines, and ethical and professional standards in the nursing care of patients with various kidney conditions. Utilize contemporary soft skills and advanced technology in the provision of specialized nephrology nursing care.

Course Code: **NEPH605** **Course Title:** **Consolidated Practicum in Nephrology Nursing**

Apply the consolidated specialized knowledge and competencies in caring for patients with a wide range of kidney diseases. Demonstrate proficiency in performing advanced health assessment using the clinical parameters and findings of the different diagnostic measures. Independently plan and implement individualized, comprehensive nursing care in collaboration with interdisciplinary healthcare teams in diverse nephrology care settings. Utilize clinical judgment, decision-making, and leadership skills in the delivery of holistic nephrology nursing care within the ethical and legal frameworks.

Emergency Nursing Stream

Course Code: **EMRN601** **Course Title:** **Emergency Nursing Care I**

Introduce the concepts and principles of emergency nursing practice and triage, emphasizing the legal and regulatory aspects. Develop in-depth knowledge in the areas of cardiovascular and respiratory emergencies, resuscitation, and nursing management of patients with hematological emergencies, shock, and traumatic injuries.

Course Code: **EMRN602** **Course Title:** **Emergency Nursing Care Practicum I**

Develop students with specialized skills for triaging and caring for patients with life-threatening conditions. Utilize the nursing process approach to assess and prioritize patients' problems and provide evidence-based care accordingly. Comply with the legal and ethical principles of emergency nursing while approaching diverse populations in emergency settings. Assist in resuscitating patients with cardiopulmonary emergencies and use their decision-making skills to manage different emergency conditions.

Course Code: **EMRN603** **Course Title:** **Emergency Nursing Care II**

Demonstrate specialized knowledge in providing comprehensive emergency care for patients with various conditions, including neurologic, gastrointestinal, endocrine, ear, nose, throat (ENT), renal, emergencies, and fluid electrolyte disentrance. Analyze the nurses' role regarding toxicologic emergencies, communicable diseases, and pandemics.

Course Code: EMRN604 **Course Title:** Advanced Emergency Nursing

Deliver effective emergency care to patients of all ages. Focus on the unique considerations and challenges involved in providing emergency nursing care across the life spans, including pediatric, geriatric, obstetric, gynecological, and mental health emergencies. Discuss the principles of communication, cultural competency, and ethical considerations in emergency care.

Course Code: EMRN605 **Course Title:** Emergency Nursing Care Practicum II

Integrate consolidated knowledge and advanced skills into practice while managing patients with diverse emergency conditions using high-tech, complex emergency equipment. Employ critical thinking and decision-making skills required to manage life-threatening conditions independently. Apply the principles of effective team dynamics and collaboration with healthcare professionals in emergency settings.

Course Code: NUR621 **Course Title:** Thesis

This course focuses on the development of a coherent master's thesis in nursing and midwifery fields. Utilizing the research process, students will engage in independent scientific inquiry and apply advanced theoretical and methodological frameworks to address a significant healthcare issue under the supervision of expert academics. Emphasis will be placed on formulating research questions, conducting literature reviews, and utilizing appropriate research methodologies. Students will also implement their study, analyze the collected data, and objectively discuss their findings in the light of recent studies and evidence-based practice. Students will have opportunity to defend their scholarly work which reflect their professional growth.

Course Code: NUR630 **Course Title:** Clinical Residency in Adult Health Nursing Specialties

These courses enable students to independently undertake the Advanced Practice Nurse (APN) role in managing adult patients with acute and chronic conditions across critical care, cardiovascular, emergency, and nephrology specialties. Students will consolidate specialized knowledge and core competencies, clinical guidelines, and evidence-based practices in caring for diverse health conditions. Through the intensive hands-on training, students will demonstrate proficiency in appraising clinical parameters, formulating differential diagnoses, and utilizing the nursing process to address various disorders while providing effective independent nursing care. Advanced Practice Nurses will employ clinical judgment, decision-making, and leadership skills within ethical and legal frameworks to ensure holistic patient care.