

# HEM-EMERGENCY MEDICAL SERVICES (HEM)

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## HEM 1103 EMT-Basic (2-2-3)

The EMT-B level prepares the student to provide basic emergency health care in the clinical environment. The course will introduce the student to the knowledge, skills and competencies to assess, diagnose and manage patients. EMT-B will also assist other practitioners in the clinical environment under the supervision of a qualified practitioner.

## HEM 2015 Medical Emergencies (3-4-5)

Provides the necessary theoretical knowledge, skills and competencies to provide medical care to patients in the emergency care setting. A wide range of non-traumatic pathologies, illnesses and diseases will be presented at the intermediate level in the scope of emergency medicine. In addition it addresses the community's needs for health prevention, promotion and curative care. Caters for special populations and contemporary epidemiology

**Prerequisites:** HEM 1103

## HEM 2024 Trauma Emergencies (2-4-4)

Provides the necessary theoretical knowledge, skills and competencies to provide medical care to patients in the prehospital and in-hospital emergency care setting. A wide range of traumatic pathologies, illnesses and diseases will be presented at the intermediate level in the scope of emergency medicine. In addition it addresses the community's needs for health prevention, promotion and curative care. Caters for special populations and contemporary epidemiology.

**Prerequisites:** HEM 1103

## HEM 2033 EMS Applied Pharmacology I (2-2-3)

Provides an introduction into basic concepts and fundamentals of applied pharmacology within the prehospital emergency care context. Focuses on the basic drug classification and concepts with special consideration to Emergency Medical Care. This subject requires you to link your understanding of physiology, pathophysiology and emergency medical care to the administration of medications within a defined scope of practice. Each of the medications that are administered by emergency care practitioners within the UAE are dealt with at an introductory level based on the relevant scope of practice.

**Prerequisites:** HEM 1103

## HEM 2103 Foundations of Professional Practice (2-2-3)

This course develops the knowledge, skills and competencies required for the multiple roles the paramedic is expected to play in the EMS environment. This encompasses leadership, basic EMS administration, management of emergency response situations, facilitating transfer of knowledge and skills, and promoting quality improvement processes.

## HEM 2123 Obstetric, Gynecology, Neonatal and Pediatric Emergencies (2-2-3)

This course builds on the knowledge and skills that were learned in the EMT-B course for the management of gynecological, obstetric, pediatric emergencies and neonatal resuscitation. You will apply previous knowledge of pharmacology and medical and trauma emergencies to disorders within this special patient population. You will attain skills and competencies which are specific to the different subgroups within this special population. You will merge the knowledge and blend the skills sets to competently manage these emergencies at the intermediate life support level of prehospital care.

**Prerequisites:** HEM 1103

## HEM 2903 Ambulance Preceptorship I (3-1-3)

The course is designed for the preparation of the paramedic student & involves supervised practice of previously studied theory. You will integrate knowledge, skills and competencies learned in the classroom & clinical lab with real patients. You will attend shifts in the clinical environment & work with a clinical facilitator as part of a team. You will work at the relevant scope of practice & the clinical facilitator will guide you through aspects of the calls and will carry out pre-incident and post-incident briefing to encourage a dynamic learning environment.

**Prerequisites:** HEM 1103

## HEM 2913 Hospital Preceptorship I (3-1-3)

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 2015, HEM 2024

## HEM 2923 Ambulance Preceptorship II (3-1-3)

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 2903, HEM 2015, HEM 2024

## HEM 3006 Advanced Prehospital Emergency Care I (4-4-6)

The aim of this unit is to develop clinical skills for the management of patients suffering from airway, cardiovascular, respiratory and immunological emergencies in preparation for your practice as a beginning level advanced care paramedic. You will be able to adopt the clinical reasoning skills that underpin the management of such patients and also consider the impact of ageing in relation to this group of people.

**Prerequisites:** HEM 2015

## HEM 3013 EMS Applied Pharmacology II (2-2-3)

Build onto the concepts and fundamentals of Applied Pharmacology I (HEM 2033) course. This course will provide the advanced paramedic student with enhanced knowledge of pharmacology which include best practice and evidence-based medicine (care), legislation, pharmacokinetics, classifications, calculations and pharmacotherapy within a defined scope of practice. This knowledge will then underpin critical analysis of the impact of life stages and disease states on drug therapy and will be complemented by an understanding of drug safety issues as they relate to pre-hospital care.

**Prerequisites:** HEM 2033

## HEM 3106 Advanced Prehospital Emergency Care II (4-4-6)

The aim of this unit is to develop clinical skills for the management of patients suffering from medical and surgical emergencies to progress to the advanced paramedic level. You will develop the clinical reasoning skills that underpin the management of such patients and also consider the impact of ageing in relation to this group of people

**Prerequisites:** HEM 2024

**HEM 3113 Primary Health Care (4-0-3)**

Provides the emergency medical care student with the clinical competencies, skills and management in order to function effectively in a Primary Health Care setting. Enables the students to develop a deeper understanding of community and primary health care by exploring the core concepts of primary and community based care. Identifies factors associated with the health of communities and examines the current structures of community care in the United Arab Emirates, which will enable students to implement primary health care interventions.

**Prerequisites:** HEM 1103, HEM 2903

**HEM 3903 Ambulance Preceptorship III (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 2923

**HEM 3913 Hospital Preceptorship II (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 2913, HEM 3006

**HEM 3923 Responder Preceptorship I (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 3006, HEM 3106, HEM 3903

**HEM 4006 Advanced Gynecological/Obstetric and Pediatric Emergencies (4-4-6)**

A wide range of Obstetrical and Gynecological emergencies as well as Neonatal and Pediatric medical and trauma pathologies, illnesses and diseases will be presented at the advanced level in the scope of emergency medicine. In addition, it addresses the community's needs for health prevention, promotion and curative care. Caters for special populations and contemporary epidemiology

**Prerequisites:** HEM 2123

**HEM 4013 Leadership in Professional Practice (4-0-3)**

Leadership is a vital part of delivering high quality healthcare for all healthcare professionals. This course develops the knowledge, skills and competencies required for the multiple leading roles the advanced paramedic is expected to play in the EMS environment. This encompasses leadership, basic EMS administration, management of emergency response situations, facilitating transfer of knowledge and skills, and promoting quality improvement processes.

**Prerequisites:** HEM 2103

**HEM 4106 Advanced Standards of Prehospital Emergency Care and Transport (4-4-6)**

This unit is designed to continue the development and demonstration of professional skills as critical reflection that help define you as a health care practitioner and set you on a pathway of continuing professional development. As a professional practitioner you will develop evidence based knowledge and implement reflective processes to improve the quality of patient care.

**Prerequisites:** HEM 3006

**HEM 4903 Hospital Preceptorship III (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 3913

**HEM 4913 Responder Preceptorship II (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 3923

**HEM 4923 Responder Preceptorship III (IST Optional) (0-12-3)**

The course is designed to prepare the paramedic student for the job which involves the supervised practical application of previously studied theory. You will be required to integrate knowledge, skills and competencies learned in the classroom and clinical laboratory settings with real patient interactions.

**Prerequisites:** HEM 4913