

# EMERGENCY MEDICAL SERVICES

## Admission to Program

Admission to the program is explained in the HCT Admission Policy described in the Academic Policies section of this Catalog.

## Program Mission

The Department of Emergency Medical Services is committed to training the next generation of UAE nationals to the highest international standards of emergency medical care. With an emphasis on evidence based medicine, learning by doing and the latest educational technology, we strive to meet the needs of the community and our sponsors to have UAE nationals trained to provide emergency care to the critically ill or injured in the United Arab Emirates

## Program Description

The Bachelor of Emergency Medical Services program is a four-year post-Foundations program preparing graduates for emergency medical care professional practice. In the first two program years students develop an extensive knowledge of health sciences, communication, terminology and emergency medical care up to an intermediate life support level. The final two years of the program develop students' skills to advanced life support levels which include diagnostic, clinical judgment, research, quality and leadership. The program promotes the development of analytical thinking, problem-solving abilities, communication skills, professional ethics, social responsibility, professional citizenship, the ability to adapt to change and respond to challenges in the prehospital and in-hospital emergency settings, and a commitment to lifelong learning.

**Students will have the option to graduate with a Diploma in Emergency Medical Sciences upon the successful completion of all Health Science common year courses and the Emergency Care modules and Preceptorships in the second year.**

## Program Learning Outcomes

### Bachelor of Emergency Medical Services

*On successful completion of this program the graduate will be able to:*

1. Apply theoretical and technical knowledge that incorporate evidence based practice to provide internationally safe, responsible and quality patient care in the emergency care setting.
2. Apply technology and medical innovation through simulation and skills based training in emergency medical care.
3. Demonstrate effective communication and psychomotor skills to manage emergency medical situations in accordance with the relevant Advanced Paramedic clinical practice guidelines (CPG).
4. Apply critical thinking to analyse medical emergency situations and take autonomous evidenced based decision to deliver safe and effective medical care.
5. Demonstrate competency in technical leadership skills to be able to lead and work collaboratively within a multidisciplinary team.
6. Use lifelong learning as a reflective practitioner in order to modify practice and enhance the emergency medical care profession.

7. Apply entrepreneurship and innovation skills to identify and contribute to potential solutions for emerging complex healthcare challenges.

### Diploma in Emergency Medical Services

*On successful completion of this program the graduate will be able to:*

1. Apply theoretical and technical knowledge that incorporate evidence based practice to provide internationally safe, responsible and quality patient care in the emergency care setting.
2. Apply technology and medical innovation through simulation and skills based training in emergency medical care.
3. Demonstrate competency in non-technical skills to enhance the attitude of the provider and the quality of overall emergency medical care.
4. Demonstrate competency in technical leadership skills to be able to lead and work collaboratively within a multidisciplinary team.
5. Participate in lifelong learning as a reflective practitioner to improve clinical practice and enhance the standards of emergency medical care.
6. Apply entrepreneurship and innovation skills to identify and contribute to potential solutions for emerging complex healthcare challenges.

## Requirements Completion Requirements

### Bachelor of Emergency Medical Services

**Students must successfully complete a minimum of 138 credits as follows:**

Code	Title	Credit Hours
	Health Science Core Courses	24
	Emergency Medical Services Core Courses	54
	Emergency Medical Services Preceptorship Courses	27
	General Studies	33
	Total Credit Hours	138

### Diploma in Emergency Medical Services

**Students must successfully complete a minimum of 69 credits as follows:**

Code	Title	Credit Hours
	Health Science Core Courses	15
	Emergency Medical Services Core Courses	21
	Emergency Medical Services Preceptorship Courses	9
	General Studies	24
	Total Credit Hours	69

Code	Title	Credit Hours
<b>Health Science Core Courses</b>		
Required Credits: 24		
HSC 1023	Chemistry for Health Sciences	3
HSC 1033	Anatomy and Physiology	3

HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1123	Work Health and Safety	3
HSC 1803	Medical Terminology for Health Sciences	3
HSC 4003	Research Methods for Health Sciences	3
HSC 4006	Capstone Research Project for Health Sciences	6

**Emergency Medical Services Core Courses**

Required Credits: 54

HEM 1103	EMT-Basic	3
HEM 2015	Medical Emergencies	5
HEM 2024	Trauma Emergencies	4
HEM 2033	EMS Applied Pharmacology I	3
HEM 2103	Foundations of Professional Practice	3
HEM 2123	Obstetric, Gynecology, Neonatal and Pediatric Emergencies	3
HEM 3006	Advanced Prehospital Emergency Care I	6
HEM 3013	EMS Applied Pharmacology II	3
HEM 3106	Advanced Prehospital Emergency Care II	6
HEM 3113	Primary Health Care	3
HEM 4006	Advanced Gynecological/Obstetric and Pediatric Emergencies	6
HEM 4013	Leadership in Professional Practice	3
HEM 4106	Advanced Standards of Prehospital Emergency Care and Transport	6

**Emergency Medical Services Preceptorship Courses**

Required Credits: 27

HEM 2903	Ambulance Preceptorship I	3
HEM 2913	Hospital Preceptorship I	3
HEM 2923	Ambulance Preceptorship II	3
HEM 3903	Ambulance Preceptorship III	3
HEM 3913	Hospital Preceptorship II	3
HEM 3923	Responder Preceptorship I	3
HEM 4903	Hospital Preceptorship III	3
HEM 4913	Responder Preceptorship II	3
HEM 4923	Responder Preceptorship III (IST Optional)	3

**General Studies**

Required Credits: 33

**English, Arabic or other Languages**

Required Credits: 12

**Humanities or Art**

Required Credits: 3

**Information Technology or Mathematics**

Required Credits: 6

**The Natural Sciences**

Required Credits: 3

**The Social or Behavioral Sciences**

Required Credits: 9

Description	Data
Total Required Credits	138
Maximum Duration of Study	6 years
Minimum Duration of Study	4 years
Cost Recovery Program	No

Program Code BHEMU

Major Code HEM

## Ideal Study Plan

Recommended Sequence of Study

**Year 1**

Semester 1		Credit Hours
HSC 1013	Human Biology	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1803	Medical Terminology for Health Sciences	3
LSM 1113	Statistical Mathematics	3
LSC 1103	Professional Communication and Reporting	3
Credit Hours		15

**Semester 2**

AES 1003	Emirati Studies	3
HSC 1033	Anatomy and Physiology	3
HSC 1123	Work Health and Safety	3
HEM 1103	EMT-Basic	3
HEM 2103	Foundations of Professional Practice	3
Credit Hours		15

**Summer**

HSC 1023	Chemistry for Health Sciences	3
AES 1033	Islamic Culture	3
Credit Hours		6

**Year 2****Semester 3**

HEM 2015	Medical Emergencies	5
HEM 2024	Trauma Emergencies	4
HEM 2033	EMS Applied Pharmacology I	3
HEM 2903	Ambulance Preceptorship I	3
LSS 1123	Basic Research Methods	3
Credit Hours		18

**Semester 4**

HEM 2913	Hospital Preceptorship I	3
AES 1013	Arabic Communications I	3
LSS 1003	Life and Future Skills	3
HEM 2123	Obstetric, Gynecology, Neonatal and Pediatric Emergencies	3
Credit Hours		12

**Summer**

HEM 2923	Ambulance Preceptorship II	3
Diploma Exit		3
Credit Hours		3

**Year 3****Semester 5**

BUS 2403	Innovation and Entrepreneurship	3
HEM 3006	Advanced Prehospital Emergency Care I	6
HEM 3013	EMS Applied Pharmacology II	3
HEM 3903	Ambulance Preceptorship III	3
ICT 2013	Computational Thinking and Coding	3
Credit Hours		18

**Semester 6**

HEM 3106	Advanced Prehospital Emergency Care II	6
HEM 3113	Primary Health Care	3
HEM 3913	Hospital Preceptorship II	3
LSC 2193	Applied Skills Capstone	3
Credit Hours		15

<b>Summer</b>		
HEM 3923	Responder Preceptorship I	3
	Credit Hours	3
<b>Year 4</b>		
<b>Semester 7</b>		
HEM 4006	Advanced Gynecological/Obstetric and Pediatric Emergencies	6
HEM 4013	Leadership in Professional Practice	3
HEM 4903	Hospital Preceptorship III	3
HSC 4003	Research Methods for Health Sciences	3
	Credit Hours	15
<b>Semester 8</b>		
HEM 4106	Advanced Standards of Prehospital Emergency Care and Transport	6
HEM 4913	Responder Preceptorship II	3
HSC 4006	Capstone Research Project for Health Sciences	6
	Credit Hours	15
<b>Summer</b>		
HEM 4923	Responder Preceptorship III (IST Optional)	3
	Credit Hours	3
	<b>Total Credit Hours</b>	<b>138</b>

## Faculty and Academic Staff

**Sean Ferguson.** Lecturer. Master of Science (MSc), Healthcare Leadership, Kingston University, London. 2018

**Judy Sheahan.** Lecturer, Master of Philosophy (MPhil) Health Professions Education; 2018

**Faisal Binks.** Lecturer, Masters Business Administration, Durban University of Technology, University of South Africa, 2011

**Reon Conning.** Teaching Assistant, Master of Health Science (MHSc) Emergency Medical Care – Durban University of Technology, 2018

**Justice Bosman.** Clinical Instructor, Bachelor of Emergency Medical Care, Cape Peninsula University of Technology, South Africa. 2019

**Rawan Abu Jneineh.** Clinical Instructor, Bachelor of Science (BSc), Paramedic Science, 2014

**Shameeg Jacobs.** Clinical Instructor, Bachelor of Emergency Medical Care, Cape Peninsula University of Technology. 2017

**Sunil Sookraj,** Teaching Assistant, Bachelor of Emergency Medical Care & Rescue, Durban University of Technology, South Africa. 2008

**Aruna Ramiseti.** Clinical Instructor, Master of Science (MSc) Public Health, University of Glamorgan, UK. 2012

**John Adams. Clinical Instructor** Bachelor of Emergency Medical Care, Cape Peninsula University of Technology, South Africa. 2014

**Binyamien Kariem. Clinical Instructor,** Bachelor of Emergency Medical Care, Cape Peninsula University of Technology, South Africa. 2015