



FACULTY OF
HEALTH SCIENCES





Faculty of Health Sciences

Faculty Mission

To offer nationally and internationally accredited programs to educate and train healthcare and human services work force in the UAE.

Senior Staff

Executive Dean: **Dr. Mohammed Hag Ali**

Degree	Offered at
Bachelor of Emergency Medical Services	Sharjah Men's
Bachelor of Health Information Management	Abu Dhabi Women's, Sharjah Women's, Fujairah Women's
Bachelor of Medical Imaging Science	Abu Dhabi Women's, Dubai Women's, Fujairah Women's
Bachelor of Medical Laboratory Science	Abu Dhabi Women's, Sharjah Women's
Bachelor of Nursing	Sharjah Women's, Fujairah Women's
Bachelor of Pharmacy	Dubai Women's
Bachelor of Social Work	Abu Dhabi Women's, Sharjah Women's
Bachelor of Veterinary Science	Al Ain Men's, Sharjah Men's

Bachelor of Emergency Medical Services and Diploma in 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 Catalogue.

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 Applied Science in 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

On successful completion of the Bachelor of Applied Science in Emergency Medical Services program, the graduate will be able to:

1. Interpret and apply a wide range of detailed theoretical knowledge in order to formulate and implement an advanced level of treatment and alternative management modalities to provide safe, responsible and quality patient care in the emergency care setting.
2. Integrate clinical practice guidelines, evidence

based medicine and theoretical principles to provide internationally aligned best practice within the emergency care setting.

3. Demonstrate a deep understanding of technological applications and medical innovation within the field of emergency medical care.
4. Demonstrate the psychomotor skills that are necessary to render emergency medical care to patients in accordance with the relevant advanced life support clinical practice guidelines (CPG).
5. Apply critical thinking skills to analyze medical emergencies and inform autonomous decision-making to deliver safe and effective emergency medical care.
6. Demonstrate the ability to integrate management and research skills with advancing technology in order to develop specialized clinical strategies for patients in the emergency care setting.
7. Work independently as well as part of a team in a diverse range of clinical and non-clinical emergency care settings.
8. Use lifelong learning as a reflective practitioner in order to modify practice and enhance the emergency medical care profession.
9. Demonstrate the professional attributes, conduct and leadership relevant to their role as advanced life support emergency care providers within the healthcare system and community.

Completion Requirements

Students must successfully complete a minimum of 138 credits as follows:	
Health Science Core Courses:	24 credits
Emergency Medical Services Core Courses:	54 credits
Emergency Medical Services Preceptorship Courses:	27 credits
General Studies:	33 credits

Course Credits

Health Science Core Courses		
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 Obstetric, Gynecology 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		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences		3
The Social or Behavioural Sciences		9

Diploma in Emergency Medical Services

Program Learning Outcomes

Students exiting with the Diploma will be able to:

1. Apply knowledge, management and decision making aspects in order to provide safe, responsible and quality patient care in the emergency care setting.
2. Understand and integrate theoretical principles in order to use established clinical practice guidelines according to international standards within the field of emergency care.
3. Demonstrate the psychomotor skills that are necessary to render care to patients in accordance with the relevant clinical practice guidelines (CPG).
4. Apply specialist cognitive and practical skills in order to diagnose and treat a range of patients in a variety of emergency and non-emergency situations.
5. Demonstrate communication and information technology skills in order to coherently manage complex situations in the field of emergency care.
6. Coordinate or supervise routine and some non-routine emergency care of patients within a range of clinical and non-clinical settings at an intermediate life support level.

7. Participate in lifelong learning as a reflective practitioner in order to improve clinical practice and enhance the standards of emergency medical care.
8. Demonstrate the professional attributes, conduct and leadership relevant to their role as mid-level emergency care providers within the healthcare system and community.

Completion Requirements

Students must successfully complete a minimum of 69 credits as follows:	
Health Science Core Courses:	15 credits
Emergency Medical Services Core Courses:	21 credits
Emergency Medical Services Preceptorship Courses:	9 credits
General Studies:	24 credits

Recommended Sequence of Study

Bachelor in Emergency Medical Services

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1013	Human Biology	3	HSC 1033	Anatomy and Physiology	3
HSC 1803	Medical Terminology	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communications I	3
Year 1 Summer Semester			Year 2 Semester 4		
Required Credits: 3			Required Credits: 15		
HEM 1103	EMT-Basic	3	HEM 2103	Foundations of Professional Practice	3
Year 2 Semester 3			HEM 2123	Obstetric/gynecology/Neonatal/Paediatric Emergencies	3
Required Credits: 18			HEM 2913	Hospital Preceptorship I	3
HEM 2015	Medical Emergencies	5	AES 1003	Emirati Studies	3
HEM 2024	Trauma Emergencies	4	LSS 1123	Basic Methods of Scientific Research and Development	3
HEM 2033	EMS Applied Pharmacology I	3			
HEM 2903	Ambulance Preceptorship I	3			
ICT 2013	Computational Thinking and Coding	3			
Year 2 Summer Semester					
Required Credits: 3					
HEM 2923	Ambulance Preceptorship II	3			
Diploma Exit					
Year 3 Semester 5			Year 3 Semester 6		
Required Credits: 18			Required Credits: 15		
HEM 3006	Advanced Prehospital Emergency Care I	6	HEM 3106	Advanced Prehospital Emergency Care II	6
HEM 3013	EMS Applied Pharmacology II	3	HEM 3113	Primary Health Care	3
HEM 3903	Ambulance Preceptorship III	3	HEM 3913	Hospital Preceptorship II	3
LSC 2103	Academic Reading and Writing II	3	AES 3003	Professional Arabic	3
LSS 2403	Innovation and Entrepreneurship	3			
Year 3 Summer Semester			Year 4 Semester 8		
Required Credits: 3			Required Credits: 18		
HEM 3923	Responder Preceptorship I	3	HEM 4106	Advanced Standards of Prehospital Emergency Care and Transport	6
Year 4 Semester 7			HSC 4006	Capstone Research Project For HS	6
Required Credits: 15			HEM 4913	Responder Preceptorship II	3
HEM 4006	Advanced Gynaecological/Obstetric & Paediatric Emergencies	6	HEM 4923	Responder Preceptorship III (IST Optional)	3
HEM 4903	Hospital Preceptorship III	3			
HEM 4013	Leadership in Professional Practice	3			
HSC 4003	Research Methods for Health Sciences	3			

Academic Staff

Reon Conning, Bachelor in Emergency Medical Care & Rescue, Durban University of Technology, South Africa

Sunil Sookraj, Bachelor in Emergency Medical Care & Rescue, Durban University of Technology, South Africa

Faisal Binks, Bachelor in Emergency Medical Care & Rescue, Masters Business Administration, Durban University of Technology, University of South Africa, South Africa

Jacobus Naude, Bachelor in Emergency Medical Care & Rescue : Cape Peninsular University of Technology, South Africa

Bachelor of Health Information Management and Higher Diploma in Health Information Coding

Admission to program

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

Program Mission

“Prepare Emirati national graduates with technical and administrative skills to manage health information systems consistent with professional standards in health care delivery settings.”

Program Description

The Bachelor of Health Information Management program is a four-year post-Foundations program preparing graduates for health information management professional practice. In the first three program years students develop an extensive knowledge and skills in healthcare information coding and introductory management and health informatics knowledge and skills. The final year of the program develop students' skills in health informatics, research, quality, advanced data management, leadership and health data analysis. 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 health information management, and a commitment to lifelong learning.

Students will have the option to graduate with a Higher Diploma in Health Information Coding upon the successful completion of all required courses and preceptorships.

Program Learning Outcomes

Bachelor of HIM (NQF Level 7)

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

1. Apply management concepts, skills and decision making in order to manage accurate and timely health information.
2. Demonstrate knowledge of healthcare policy, economics and regulatory environments to include local, national and international health information management trends.
3. Apply and analyze appropriate classification system in evaluating and assigning diagnostic and procedural codes in a timely manner whilst maintaining the completeness and accuracy of data.

4. Manage and analyze healthcare data by applying applicable principles of health information technology and policies in compliance with Ministry of Health, local authorities and accreditation agency requirements.
5. Demonstrate the ability to work independently as well as part of a team in a diverse range of clinical and non-clinical settings to ensure safe management of health information practice.
6. Demonstrate professional attributes relevant to their role and apply reflective practice in health information management
7. Develop, and maintain professional competence and incorporate new solutions into health information management.

Higher Diploma in Health Information Coding (NQF Level 6)

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

1. Apply basic management concepts, skills and decision making in order to manage accurate and timely coded health information.
2. Demonstrate knowledge of healthcare policy and regulatory environments that pertains to health information coding systems requirements.
3. Apply appropriate classification system in evaluating and assigning diagnostic and procedural codes in a timely manner whilst maintaining the completeness and accuracy of data.
4. Manage healthcare data by applying principles of health information technology and policies in compliance with Ministry of Health, local authorities and accreditation agency requirements.
5. Demonstrate the ability to work independently as well as part of a team in a diverse range of clinical coding settings to ensure safe management of health information practice.
6. Demonstrate professional attributes relevant to their role and apply reflective practice in health information coding
7. Develop, and maintain professional competence in health information coding.

Health Information Management Bachelor Completion Requirements

Students must successfully complete a minimum of 129 credits as follows:	
Health Science Core Courses:	24 credits
Health Information Management Core Courses:	60 credits
Health Information Management Preceptorship Courses:	12 credits
General Studies:	33 credits

Health Information Coding Higher Diploma Completion Requirements

Students must successfully complete a minimum of 98 credits as follows:	
Health Science Core Courses:	15 credits
Health Information Management Core Courses:	42 credits
Health Information Management Preceptorship Courses:	8 credits
General Studies:	33 credits

Course Credits

Health Science Core Courses

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

Course Credits

Health Information Management Core Courses

Required Credits: 60

HIM 1203	Health Information Coding I (Introduction)	3
HIM 2113	Applied Pathophysiology I	3
HIM 2203	Health Information Management Studies	3
HIM 2003	Health Information Coding II (Intermediate)	3
HIM 2403	Introduction to Management in Healthcare	3
HIM 3003	Biostatistics	3
CIA 3103	Database Design and Administration	3
HIM 3303	Epidemiology	3
HIM 3103	Health Informatics I	3
HIM 4303	Health Care Economics and Health Insurance	3
HIM 4103	Health Data Analysis	3
HIM 2313	Applied Pathophysiology II	3
HIM 2323	Legal and Ethical Aspects in HIM	3
CIS 1303	Data and Information Management	3
HIM 3013	Health Information Coding III	3
HIM 4013	Quality Management in Healthcare	3
HIM 4023	Health Informatics II	3
HIM 4033	Finance Management in Healthcare	3
HIM 4413	Strategic Management in Health Care	3
HIM 3113	Health Information Coding IV	3

Health Information Management Preceptorship Courses

Required Credits: 12

HIM 2902	HIM Hospital Preceptorship I	2
HIM 3912	Coding Preceptorship I	2
HIM 3914	Coding Preceptorship II	4
HIM 4904	HIM Hospital Preceptorship II	4

General Studies

Required Credits: 33

English, Arabic or other Languages	12
Humanities or Art	3
Information Technology or Mathematics	6
The Natural Sciences	3
The Social or Behavioural Sciences	9

Recommended Sequence of Study

Bachelor of Health Information Management and Higher Diploma in Health Information Coding

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
(Year 1) Semester 1			(Year 1) Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1013	Human Biology	3	HSC 1033	Anatomy and Physiology	3
HSC 1803	Medical Terminology	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
(Year 2) Semester 3			(Year 2) Semester 4		
Required Credits: 17			Required Credits: 18		
HIM 1203	Health Information Coding I	3	HIM 2003	Health Information Coding II	3
HIM 2113	Applied Pathophysiology I	3	HIM 2313	Applied Pathophysiology II	3
HIM 2203	Health Information Management Studies	3	HIM 2323	Legal and Ethical Aspects in HIM	3
LSC 2103	Academic Reading and Writing II	3	CIS 1303	Data & Information Management	3
LSS 1123	Basic Methods of Scientific Research and Development	3	HIM 2403	Introduction Management in Healthcare	3
HIM 2902	HIM Hospital Preceptorship I	2	AES 1003	Emirati Studies	3
(Year 2) Summer Semester*					
Required Credits:					
(Year 3) Semester 5			(Year 3) Semester 6		
Required Credits: 17			Required Credits: 16		
HIM 3013	Health Information Coding III	3	HIM 3113	Health Information Coding IV	3
HIM 3003	Biostatistics	3	HIM 3303	Epidemiology	3
CIA 3103	Database Design & Administration	3	HIM 3103	Health Informatics I	3
ICT 2013	Computational Thinking and Coding	3	LSS 2403	Innovation and Entrepreneurship	3
AES 3003	Professional Arabic	3	HIM 3914	Coding Preceptorship II	4
HIM 3912	Coding Preceptorship I	2			
Higher Diploma in Health Information Coding Exit = 98 credits					
(Year 4) Semester 7			(Year 4) Semester 8		
Required Credits: 16			Required Credits: 15		
HIM 4013	Quality Management in Healthcare	3	HIM 4303	Health Care Economics & Health Insurance	3
HSC 4003	Research Methods for Health Sciences	3	HIM 4413	Strategic Management in Health Care	3
HIM 4023	Health Informatics II	3	HIM 4103	Health Data Analysis	3
HIM 4033	Finance Management in Healthcare	3	HSC 4006	Capstone Research Project for Health Sciences	6
HIM 4904	HIM Hospital Preceptorship II	4			

Bachelor of HIM Exit; Total Credits=129

Academic Staff

Maryam Alhousani, Executive Master Healthcare Administration, Zayed University-AbuDhabi

Lateef Olayanju, PhD Computing (Health Informatics), Coventry University

Benjamin Poku, DrPH Public Health, Georgia Southern University, USA

Scott Weber, EdD Education, Boston University

Riaz Akseer, PhD Applied Health Sciences, Brock University

Ina Kamaludin, Masters in Health Services Management, Curtin University of Technology

Bachelor of Medical Imaging Science and Higher Diploma in Medical Imaging Technology

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

Medical Imaging Science Program Mission

“To Prepare Emirati national students to practice competently and effectively as medical imaging professionals in diverse healthcare environments and meet the continuously thriving UAE stakeholder’s demands for medical imaging human resources”.

Medical Imaging Science Program Description

The Bachelor of Medical Imaging Science (BMIS) program includes a knowledge base that examines specializations of general, emergency and specialized Medical Imaging best practices. This is in alignment with the industrial multi-modality medical imaging professional’s characteristics. The BMIS program offers students in Year 4 an option to follow one of three tracks in MRI, advanced CT applications or clinical mammography. Each track consists of 9 credits where students select specialized imaging modality. The track option will distinguish graduates from other competitor programs ones by equipping each BMIS graduate with a strong background to become ready for the high end specialized imaging job on the first day of employment.

The program provides a mix of education and training that equips graduates with the skills, knowledge and competencies to work within the UAE healthcare services system to effectively fulfil health care needs from the medical imaging perspective.

Medical Imaging Technology Program Description

The Higher Diploma in Medical Imaging Technology (HDMIT) program prepares students for professional, general and emergency medical imaging practice and includes a mix of theoretical knowledge, skills and competencies required for graduates to work in the clinical or non-clinical setting. The Higher Diploma in Medical Imaging Technology program includes a knowledge base that examines specializations of General, and emergency Medical Imaging best practice.

Both BMIS and HDMIT program credentials incorporate extensive supervised professional clinical placement in relevant healthcare settings.

Program Learning Outcomes

Bachelor of medical imaging science (NQF Level 7)

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

1. Apply advanced knowledge, management and decision-making aspects within the national and global medical imaging context to provide quality healthcare services in clinical and non-clinical settings.

2. Apply theoretical and operational medical imaging protocols to develop strategies that address challenges in undertaking general, emergency and specialized medical imaging procedures.
3. Provide competent and evidence-based patient care in general, emergency and specialized medical imaging procedures based on best international and ethical practices.
4. Evaluate diagnostic images produced to ensure diagnostic quality and to promote patient safety within the ALARA and best practice frameworks.
5. Work within a framework of evidence-based practice and continuing quality assurance, evaluate medical imaging systems, and undertake management solutions to ameliorate identified problems.
6. Demonstrate the ability to work independently as well as part of a team, in a diverse range of general, emergency and specialized medical imaging settings.
7. Develop and maintain professional competence and incorporate new solutions into general, emergency and specialized medical imaging practice.
8. Demonstrate professional attributes relevant to their role in the field of general, emergency and specialized medical imaging practice.

Higher Diploma in medical imaging technology (NQF Level 6)

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

1. Apply relevant principles and theories to a national and global medical imaging context to provide quality healthcare services in clinical and non-clinical settings.
2. Apply theoretical and operational medical imaging protocols to address challenges in undertaking general and emergency medical imaging procedures.
3. Provide competent patient care in general and emergency medical imaging procedures based on best international and ethical practices.
4. Evaluate general and emergency diagnostic images produced to ensure diagnostic quality and to promote patient safety within the ALARA and best practice frameworks.
5. Work within a framework of evidence-based practice and continuing quality assurance, evaluate general and emergency medical imaging systems, and undertake solutions to ameliorate identified problems.
6. Demonstrate the ability to work independently as well as part of a team, in a diverse range of general and emergency medical imaging settings.
7. Develop and maintain professional competence and incorporate new solutions into general and emergency medical imaging practice.
8. Demonstrate professional attributes relevant to their role in the field of general and emergency medical imaging practice.

Bachelor of Medical Imaging Science Completion Requirements

Students must successfully complete a minimum of 126 credits as follows:	
Health Science Core Courses:	24 credits
Medical Imaging Core Courses:	51 credits
Medical Imaging Preceptorship Courses:	18 credits
General Studies:	33 credits

Course Credits

Health Science Core Courses		
Required Credits: 24		
HSC 1803	Medical Terminology for Health Sciences	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1033	Anatomy and Physiology	3
HSC 1023	Chemistry for Health Sciences	3
HSC 1123	Work Health and Safety	3
HSC 4003	Research Methods for Health Sciences	3
HSC 4006	Capstone Research Project for Health Sciences	6

General Studies		
Required Credits: 33		
English, Arabic or other Languages		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences		3
The Social or Behavioural Sciences		9

Medical Imaging Science Courses		
Required Credits: 51		
HMI 2003	Patient care in medical imaging 1	3
HMI 2002	Medical Imaging Technology 1	3
HMI 2303	Medical Imaging Positioning and Procedures 1	3
HMI 2403	Medical Imaging Anatomy and Pathology 1	3
HMI 2102	Medical Imaging Technology II	3
HMI 2503	Medical Imaging Positioning and procedures II	3
HMI 2603	Medical Imaging Anatomy and Pathology II	3
HMI 3003	Patient care in medical imaging II	3
HMI 3002	Medical Imaging Technology III	3
HMI 3103	Medical Imaging Positioning and Procedures III	3
HMI 3113	Specialized Imaging I	3
HMI 3213	Radiation Safety and Biology	3
HMI 3223	Cross Sectional Anatomy	3
HMI 4003	Quality Management in medical imaging	3
HMI 4103	Specialized Imaging II	3
HMI 4203	Professional Practice	3
HMI 4113	Specialized Imaging III	3

Course Credits

Medical imaging Preceptorship Courses		
Required Credits: 18		
HMI 2613	Clinical Preceptorship I	3
HMI 3013	Clinical Preceptorship II	3
HMI 3233	Clinical Preceptorship III	3
HMI 4023	Clinical Preceptorship IV	3
HMI 4106	Clinical Preceptorship V	6

Higher Diploma of Medical Imaging technology Completion Requirements

Students must successfully complete a minimum of 96 credits as follows:	
Health Science Core Courses:	15 credits
Medical Imaging Core Courses:	39 credits
Medical Imaging Preceptorship Courses:	9 credits
General Studies:	33 credits

Course Credits

Health Science Core Courses		
Required Credits: 15		
HSC 1803	Medical Terminology for Health Sciences	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1033	Anatomy and Physiology	3
HSC 1023	Chemistry for Health Sciences	3
HSC 1123	Work Health and Safety	3

General Studies		
Required Credits: 33		
English, Arabic or other Languages		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences		3
The Social or Behavioural Sciences		9

Medical Imaging Science Courses		
Required Credits: 39		
HMI 2003	Patient care in medical imaging 1	3
HMI 2002	Medical Imaging Technology 1	3
HMI 2303	Medical Imaging Positioning and Procedures 1	3
HMI 2403	Medical Imaging Anatomy and Pathology 1	3
HMI 2102	Medical Imaging Technology II	3
HMI 2503	Medical Imaging Positioning and procedures II	3
HMI 2603	Medical Imaging Anatomy and Pathology II	3
HMI 3003	Patient care in medical imaging II	3
HMI 3002	Medical Imaging Technology III	3
HMI 3103	Medical Imaging Positioning and Procedures III	3
HMI 3113	Specialized Imaging I	3
HMI 3213	Radiation Safety and Biology	3
HMI 3223	Cross Sectional Anatomy	3

Medical imaging Preceptorship Courses		
Required Credits: 9		
HMI 2613	Clinical Preceptorship I	3
HMI 3013	Clinical Preceptorship II	3
HMI 3233	Clinical Preceptorship III	3

Recommended Sequence of Study

Bachelor in Medical Imaging Science and Higher Diploma in Medical Imaging Technology

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
(Year 1) Semester 1			(Year 1) Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1013	Human Biology	3	HSC 1033	Anatomy and Physiology	3
HSC 1803	Medical Terminology	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
(Year 2) Semester 3			(Year 2) Semester 4		
Required Credits: 18			Required Credits: 15		
HMI 2003	Patient care in medical imaging 1	3	HMI 2102	Medical Imaging Technology II	3
HMI 2002	Medical Imaging Technology 1	3	HMI 2503	Medical Imaging Positioning and procedures II	3
HMI 2303	Medical Imaging Positioning and Procedures 1	3	HMI 2603	Medical Imaging Anatomy and Pathology II	3
HMI 2403	Medical Imaging Anatomy and Pathology 1	3	HMI 2613	Clinical Preceptorship I	3
LSC 2103	Academic Reading and Writing II	3	AES 1003	Emirati Studies	3
LSS 1123	Basic Methods of Scientific Research and Development	3			
(Year 3) Semester 5			(Year 3) Semester 6		
Required Credits: 15			Required Credits: 18		
HMI 3003	Patient care in medical imaging II	3	HMI 3113	Specialized Imaging I	3
HMI 3002	Medical Imaging Technology III	3	HMI 3213	Radiation Safety and Biology	3
HMI 3103	Medical Imaging Positioning and Procedures III	3	HMI 3223	Cross Sectional Anatomy	3
HMI 3013	Clinical Preceptorship II	3	HMI 3233	Clinical Preceptorship III	3
LSS 2403	Innovation and entrepreneurship	3	AES 3003	Professional Arabic	3
			ICT 2013	Computational Thinking and Coding	3
Medical Imaging Higher Diploma Exit 96 credits					
(Year 4) Semester 7			(Year 4) Semester 8		
Required Credits: 15			Required Credits: 15		
HMI 4003	Quality Management	3	HMI 4113	Specialized Imaging III	3
HMI 4013	Specialized Imaging II	3	HMI 4106	Clinical Preceptorship V	6
HMI 4023	Clinical Preceptorship IV	3	HSC 4006	Capstone Research Project For HS	6
HSC 4003	Research Methods for Health Sciences	3			
HMI 4203	Professional Practice	3			

Medical Imaging Bachelors Exit 126 credits

Academic Staff

Collen Mbambo, MSc Radiography, University Of Johannesburg- South Africa.

Hind Binjaffar, MSc Hospital Management. Hamdan Bin Mohammed Smart University-UAE.

Hussam Beituni, MSc Medical Imaging Interpretation, Charles Sturt University- Australia

Majed Hiasat, MSc radiation and environmental protection. Surrey University-UK.

Saleh Abuzeitoon, PhD technical vocational education. Amman Arab University-Jordan.

Samar El-Farra, MSc CT. Computerised Tomography (CT). Charles Strut University-Australia.

Bachelor of Medical Laboratory Science and Diploma in Medical Laboratory Technology

Admission to program

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

Program Mission

The Bachelor in Medical Laboratory Science at the Higher Colleges of Technology aims to produce skilled Emirati professionals in medical laboratory sciences who are work ready as medical laboratory science professionals delivering diagnostic care to a wide variety of patients/clients.

Program Description

The Bachelor in Medical Laboratory Science is a four-year professional programme. Graduates are trained biomedical scientists who possess a broad range of knowledge in medical laboratory diagnostics with the ability to work proficiently and are culturally competent to deliver care to a wide range of clients/patients. The four years of undergraduate study integrates biomedical science theory, laboratory skills and supervised professional practice in a variety of clinical settings. Medical laboratory scientists are specialised in the area of clinical diagnostics, producing accurate results required by physicians and health care team members for treatment and management of patients and clients. Graduates possess professional knowledge in the areas of haematology, immunology, transfusion science, clinical chemistry, microbiology, molecular and cellular pathology, with the potential to specialise and advance their skills in specialist areas. These skills can be easily transferred to work competently in public health labs, municipality and forensic labs and in the biotechnology industry. Graduates who are successful in their programme can take the credentialing exam for the American Society of Clinical Pathologists International (M.T ASCPI), which provides access to society activities and programme recognition for those students who wish to advance their education into graduate studies.

Students will have the option to graduate with a Diploma in Medical Laboratory Technology (Laboratory Technician) upon the successful completion of all required courses and preceptorships after 2 years of study.

Program Learning Outcomes

Bachelor of Medical Laboratory Science (Medical Laboratory Scientist) (NQF Level 7)

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

1. Interpret and apply knowledge, management and decision making aspects to provide quality medical laboratory diagnostic services in variety of healthcare settings.
2. Demonstrate knowledge of healthcare regulations and integrate deep knowledge of relevant technological advances and evidence-based practice to address challenges in the field of laboratory medicine.
3. Demonstrate effective cognitive and technical skills to analyse clinical specimens, formulate solutions and identify risks in order to deliver laboratory decisions to support and enhance clinical care.
4. Demonstrate skills in using equipment and advanced technologies, information systems, and communication devices that support safe medical laboratory practice in a variety of healthcare settings.
5. Apply clinical research skills to investigate problems in the medical laboratory discipline and to assess and evaluate quality procedures as relevant.
6. Demonstrate the ability to work independently as well as part of a team in a diverse range of clinical laboratories to ensure safe medical laboratory practice.
7. Develop, and maintain professional competence and incorporate new solutions into medical laboratory practice
8. Demonstrate professional attributes relevant to their role as medical laboratory technologists in the clinical laboratories

Diploma in Medical Laboratory Technology (Laboratory Technician) (NQF Level 5)

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

1. Apply knowledge and decision making aspects to provide quality medical laboratory diagnostic services in a variety of healthcare settings.
2. Demonstrate knowledge of medical laboratory information assembly and retrieval, professional practice guidelines and underlying technological principles and concepts.
3. Demonstrate effective cognitive and technical skills to analyze clinical specimens and formulate solutions in order to deliver laboratory results to support and enhance clinical care.
4. Demonstrate skills in using equipment and technologies, information systems, and communication devices that support safe medical laboratory practice in a variety of healthcare settings.
5. Demonstrate the ability to work independently as a medical laboratory technician as well as part of a team in a range of clinical laboratories to ensure safe medical laboratory practice.

6. Develop, and maintain professional competence and incorporate new solutions into medical laboratory practice.
7. Demonstrate professional attributes relevant to their role as a medical laboratory technician in the clinical laboratories.

Medical Laboratory Science Bachelor Completion Requirements

Students must successfully complete a minimum of 126 credits as follows:	
Health Science Core Courses:	24 credits
Medical Laboratory Core Courses:	54 credits
Medical Laboratory Preceptorship Courses:	15 credits
General Studies:	33 credits

Medical Laboratory Technology Diploma Completion Requirements

Students must successfully complete a minimum of 66 credits as follows:	
Health Science Core Courses:	15 credits
Medical Laboratory Core Courses:	24 credits
Medical Laboratory Preceptorship Courses:	3 credits
General Studies:	24 credits

Course Credits

Health Science Core Courses

Required Credits: 24

HSC 1803	Medical Terminology for Health Sciences	3
HSC 1113	Introduction to Healthcare Systems and Professional Practice	3
HSC 1033	Anatomy and Physiology	3
HSC 1023	Chemistry for Health Sciences	3
HSC 1123	Work Health and Safety	3
HSC 4003	Research Methods for Health Sciences	3
HSC 4006	Capstone Research Project for Health Sciences	6

Course Credits

General Studies

Required Credits: 33

English, Arabic or other Languages	12
Humanities or Art	3
Information Technology or Mathematics	6
The Natural Sciences	3
The Social or Behavioural Sciences	9

Medical Laboratory Science Courses

Required Credits: 54

HML 2043	Clinical Chemistry I	3
HML 2013	Clinical Haematology I	3
HML 2033	Medical Microbiology	3
HML 2153	Histotechnology	3
HML 2113	Systematic Bacteriology	3
HML 2143	Clinical Hematology II	3
HML 2053	Immunology	3
HML 2203	Clinical Chemistry II	3
HML 3023	Cytotechnology	3
HML 3003	Hemostasis	3
HML 3103	Applications in Molecular Diagnostics	3
HML 3013	Parasitology, Virology, Mycology	3
HML 3043	Transfusion Medicine	3
HML 3033	Clinical Biochemistry	3
HML 3053	Laboratory Management	3
HML 4016	Clinical Correlations	6
HML 4123	Pathology of Diseases	3

Medical Laboratory Science Preceptorship Courses

Required Credits: 15

HML 2213	Clinical Preceptorship I	3
HML 4006	Clinical Preceptorship II	6
HML 4116	Clinical Preceptorship III	6

Recommended Sequence of Study

Bachelor of Medical Laboratory Science and Diploma in Medical Laboratory Technology

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
(Year 1) Semester 1			(Year 1) Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1013	Human Biology	3	HSC 1033	Anatomy and Physiology	3
HSC 1803	Medical Terminology	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
(Year 2) Semester 3			(Year 2) Semester 4		
Required Credits: 15			Required Credits: 18		
HML 2013	Clinical Hematology I	3	HML 2143	Clinical Hematology II	3
HML 2033	Medical Microbiology	3	HML 2113	Systematic Bacteriology	3
HML 2043	Clinical Chemistry I	3	HML 2203	Clinical Chemistry II	3
HML 2053	Immunology	3	HML 2153	Histotechnology	3
LSS 1123	Basic Methods of Scientific Research and Development	3	AES 1003	Emirati Studies	3
			ICT 2013	Computational Thinking and Coding	3
Summer Semester 5					
Required Credits:					
HML 2213	Clinical Preceptorship I	3			
Medical Laboratory Diploma Exit = 66 Credits					
(Year 3) Semester 5			(Year 3) Semester 6		
Required Credits: 15			Required Credits: 15		
HML 3003	Hemostasis	3	HML 3043	Transfusion Medicine	3
HML 3013	Parasitology, Virology, Mycology	3	HML 3053	Laboratory Management	3
HML 3033	Clinical Biochemistry	3	HML 3103	Applications in Molecular Diagnostics	3
HML 3023	Cytotechnology	3	AES 3003	Professional Arabic	3
LSC 2013	Academic Reading and Writing II	3	LSS 2403	Innovation and Entrepreneurship	3
(Year 4) Semester 7			(Year 4) Semester 8		
Required Credits: 15			Required Credits: 15		
HSC 4003	Research Methods for Health Sciences	3	HML 4116	Clinical preceptorship III	6
HML 4016	Clinical Correlations	6	HSC 4006	Capstone Research Project For HS	6
HML 4006	Clinical preceptorship II	6	HML 4123	Pathology of Diseases	3
Bachelor Total Hours = 126					

Academic Staff

Ahmed Sharafeldin, PhD Experimental Medicine, Karolinska Institute.

Anjali Bantwal, MD Pathology, Kuvempu University.

Ban Altoumah, Masters Clinical Biochemistry, University of Technology Sydney.

John Vandergraaf, PhD Food Biochemistry, University of Reading.

Lama Musallam, Masters Hematology & Blood Banking, Jordan University of Science and Technology.

Muhammad Zaman, PhD Biochemistry, Brown University.

Teresa Stuart, Masters Medical Laboratory Science, Charles Sturt University.

Zakeya Baalawy, PhD Pharmaceutical Sciences Research (Biochemistry), King's College, London.

Bachelor of Nursing

Admission to program

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

Program Mission

The Bachelor of Nursing program aims to equip UAE National graduates with the knowledge, skills and competencies that meet national and international nursing standards to deliver safe, quality care and optimize health for individuals, families and communities. Upon completion of the program UAE National graduates will be prepared to meet industry expectations and will be offered employment.

Program Description

The Bachelor of Nursing program is a four-year post-foundation, 134 credit program that prepares the student for entry into professional practice as a generalist nurse. It includes a mix of theoretical knowledge in nursing, human and behavioural sciences, as well as other areas such as investigatory, managerial and communication knowledge and skills, all of which are required for competent, safe practice as a professional registered nurse. The program includes a knowledge base that examines the fields of: acute and chronic medical / surgical nursing; maternal and newborn health; child and adolescent health; mental health; care of the patient with complex and high dependency health needs; and community health. The program incorporates extensive supervised professional clinical education in selected and relevant clinical healthcare settings.

Program Learning Outcomes

1. Apply knowledge from the nursing, health, behavioural sciences, best practice and other relevant sources to provide quality healthcare services in clinical and non-clinical settings
2. Utilize the nursing process framework to provide care for individuals, families, and communities in different settings to optimize health
3. Demonstrate effective cognitive, technical, critical thinking, and communication skills to establish, implement and evaluate nursing care plans within healthcare settings
4. Utilize evidence-based practice research to improve patient outcomes to meet the changing healthcare needs of individuals, families and communities
5. Demonstrate the ability to work independently as well as part of a team in a diverse range of clinical healthcare and non-clinical settings

6. Develop and sustain professional competence to meet changing healthcare needs, professional standards of nursing practice and licensure requirements
7. Demonstrate leadership and management skills to provide safe, quality care in a variety of healthcare settings
8. Demonstrate professional moral, legal and ethical attributes relevant to their role as registered general nurses in their practice nationally and internationally

Completion Requirements

Students must successfully complete a minimum of 134 credits as follows:	
Health Science Core Courses:	21 credits
Nursing Core Courses:	52 credits
Nursing Practicum Courses:	28 credits
General Studies:	33 credits

Course Credits		
Health Science Core Courses		
Required Credits: 21		
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 4006	Capstone Research Project for Health Sciences	6
Nursing Core Courses		
Required Credits: 52		
HNR 2003	Fundamentals of Nursing (Theory)	3
HNR 2014	History Taking and Physical Assessment	4
HNR 2022	Communication and Health Education Skills	2
HNR 2033	Pathophysiology	3
HNR 2102	Microbiology	2
HNR 2113	Clinical Pharmacology	3
HNR 2124	Adult Health Nursing I (Theory)	4
HNR 2143	Social and Behavioural Sciences for Nursing	3
HNR 3023	Adult Health Nursing II (Theory)	3
HNR 3043	Maternal Health Nursing and Care of the Newborn (Theory)	3
HNR 3103	Mental Health Nursing (Theory)	3
HNR 3123	Child and Adolescent Health Nursing (Theory)	3
HNR 3142	Ethical and Legal Issues in Nursing	2
HNR 4023	Evidence-Based Practice	3
HNR 4103	Management of Individuals with Complex Health Needs (Theory)	3
HNR 4013	Community Health Nursing (Theory)	3
HNR 4113	Leadership and Quality Management in Nursing	3
HNR 4122	Nursing Informatics	2

Course Credits		
Nursing Practicum Courses		
Required Credits: 28		
HNR 2013	Fundamentals of Nursing (Practice)	3
HNR 2154	Adult Health Nursing I (Practice)	4
HNR 3033	Adult Health Nursing II (Practice)	3
HNR 3052	Maternal Health Nursing and Care of the Newborn (Practice)	2
HNR 3112	Mental Health Nursing (Practice)	2
HNR 3133	Child Health Nursing (Practice)	3
HNR 4033	Management of Individuals with Complex Health Needs (Practice)	3
HNR 4022	Community Health Nursing (Practice)	2
HNR 4126	Consolidated Nursing Practice	6

General Studies		
Required Credits: 33		
English, Arabic or other Languages		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences (Human Biology)		3
The Social or Behavioural Sciences		9

Recommended Sequence of Study

Bachelor of Nursing

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1013	Human Biology	3	HSC 1033	Anatomy and Physiology	3
HSC 1803	Medical Terminology for Health Sciences	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
Year 2 Semester 3			Year 2 Semester 4		
Required Credits: 15			Required Credits: 16		
HNR 2003	Fundamentals of Nursing -Theory	3	HNR 2102	Microbiology	2
HNR 2013	Fundamentals of Nursing - Practice	3	HNR 2113	Clinical Pharmacology	3
HNR 2014	History Taking and Physical Assessment	4	HNR 2124	Adult Health Nursing I - Theory	4
HNR 2022	Communication and Health Education Skills	2	HNR 2154	Adult Health Nursing I - Practice	4
HNR 2033	Pathophysiology	3	HNR 2143	Social and Behavioral Sciences for Nursing	3
Year 2 Summer Semester*					
Required Credits: 6					
LSS 1123	Basic Methods of Scientific Research and Development	3			
AES 1003	Emirati Studies	3			
Year 3 Semester 5			Year 3 Semester 6		
Required Credits: 17			Required Credits: 16		
HNR 3023	Adult Health Nursing II - Theory	3	HNR 3103	Mental Health Nursing - Theory	3
HNR 3033	Adult Health Nursing II - Practice	3	HNR 3112	Mental Health Nursing - Practice	2
HNR3043	Maternal Health Nursing and Care of the Newborn - Theory	3	HNR 3123	Child and Adolescent Health Nursing- Theory	3
HNR 3052	Maternal Health Nursing and Care of the Newborn - Practice	2	HNR 3133	Child and Adolescent Health Nursing -Practice	3
LSC 1503	Academic Spoken Communication	3	HNR 3142	Ethical and Legal Issues in Nursing	2
ICT 2013	Computational Thinking and Coding	3	LSS 2403	Innovation and Entrepreneurship	3
Year 4 Semester 7			Year 4 Semester 8		
Required Credits: 17			Required Credits: 17		
HNR 4023	Evidence-Based Practice	3	HSC 4006	Capstone Research Project For HS	6
HNR 4103	Management of Individuals with Complex Health Needs (Theory)	3	HNR 4113	Leadership and Quality Management in Nursing	3
HNR 4033	Management of Individuals with Complex Health Needs (Practice)	3	HNR 4122	Nursing Informatics	2
HNR 4013	Community Health Nursing - Theory	3	HNR 4126	Consolidated Nursing Practice	6
HNR 4022	Community Health Nursing - Practice	2			
AES 3003	Professional Arabic	3			

* Additional courses may be offered in each Summer Semester at the discretion of the Academic Faculty.

Academic Staff

Catherine Alnajjar, Master of Nursing, University of Southern Queensland

Elma Jazz E. Macrohon, DNS, Cebu Normal University, Philippines

Ligy Thandiackal, Masters of Nursing, Rajiv Gandhi University of Health Sciences, India.

Mariola Mackowiak, Masters of Nursing, Athabasca University, Canada

Mohammed Kasasbeh, PhD Nursing, Trinity College Dublin

Nesreen Alqaissi, PhD Nursing, University at Buffalo, The State University of New York

Saed Azizeh, Doctorate in Nursing, University College Cork, Ireland.

Sarah Sanad, Master of Science in Critical Care Nursing, University of Jordan

Bachelor of Pharmacy and Diploma in Pharmacy

Admission to program

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

Program Mission

The mission of the Bachelor of Pharmacy program is to produce graduates, in response to the stakeholders' demand, who are work-ready to operate as Pharmacists in various areas of the technology driven pharmaceutical care, research, education and pharmaceutical industries.

Program Description

The Bachelor of Pharmacy program is a four year post foundations program preparing graduates as Pharmacists for professional practice in different areas of Pharmacy. Graduates are educated to provide quality pharmaceutical care with a patient centered focus.

The program stresses knowledge of the biological, chemical, pharmaceutical, clinical and social sciences that underpins pharmacy, an understanding of the relevance of that knowledge to patient care and pharmaceutical problem solving and the skills to apply that knowledge to specific pharmaceutical care circumstances. The program provides students with a firm foundation for lifelong learning by promoting the development of analytical thinking, problem-solving abilities, communication skills, technical skills, intellectual leadership potential and a commitment to professional ethics, social responsibility, professional citizenship and the ability to adapt to changes and respond to challenges in pharmaceutical healthcare delivery.

Graduates of this program will be competent to provide quality pharmaceutical care, current information and products in different areas of pharmacy with a patient centred focus

Students will have the option to graduate with a Diploma in Pharmacy upon the successful completion of all required courses and preceptorships after 2 years of study.

Program Learning Outcomes

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

1. Apply knowledge, management and decision making aspects to provide quality pharmacy services to meet patients' drug related needs with the objective of achieving optimal patient outcomes and patient safety in clinical and non-clinical settings.

2. Demonstrate a broad and coherent body of knowledge of the major principles of physical-chemical, life, bio-medical, administrative and pharmaceutical sciences to successfully solve problems both in disciplinary and interdisciplinary areas of pharmacy.
3. Demonstrate effective cognitive and technical skills within the framework of evidence-based practice and continuing quality assurance to develop, implement and enhance processes and actions that ensure the safety, accuracy and high standards of pharmaceutical services and supplied products.
4. Demonstrate skills in using relevant advanced technologies, information systems, and communication devices that support quality professional practice routine as well as complex problems in a variety of pharmacy settings.
5. Demonstrate the ability to work independently or as part of a team and take responsibility in managing interactions with others in a diverse range of clinical and non-clinical settings.
6. Demonstrate professional attributes relevant to their role as pharmacist in their general as well as specialized field of practice.
7. Develop, and maintain professional competence and acquire new knowledge and skills with optimal incorporation of those into pharmacy practice.

Completion Requirements

Students must successfully complete a minimum of 139 credits as follows:	
Health Science Core Courses:	24 credits
Pharmacy Core Courses:	64 credits
Pharmacy Preceptorship Courses:	18 credits
General Studies:	33 credits

Course Credits

Health Science Core Courses		
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
Pharmacy Core Courses		
Required Credits: 64		
HPH 1503	Introduction to Pharmacy	3
HPH 2003	Biological Organic Chemistry	3
HPH 2016	General Pharmacology	6
HPH 2023	Pharmaceutics I	3
HPH 2113	Systems Pharmacology	3
HPH 2123	Microbiology and Immunology	3
HPH 2133	Pharmaceutics II	3
HPH 2153	Medicinal Chemistry I	3
HPH 3006	Pathophysiology and Therapeutics I	6
HPH 3043	Medicinal Chemistry II	3
HPH 3054	Pharmaceutics III	4
HPH 3133	Clinical Biochemistry and Toxicology	3
HPH 3143	Pharmaceutical Analysis	3
HPH 3163	Pathophysiology and Therapeutics II.	3
HPH 4013	Complementary Medicine	3
HPH 4033	Pharmaceutical Care Practice Skills	3
HPH 4073	Pathophysiology and Therapeutics III	3
HPH 4003	Biotechnology	3
HPH 4103	Pharmacy law, ethics and pharmacoconomics	3
Pharmacy Preceptorship Courses		
Required Credits: 18		
HPH 2034	Community Pharmacy Preceptorship	4
HPH 2144	Clinical Pharmacy Preceptorship I	4
HPH 3154	Clinical Pharmacy Preceptorship II	4
HPH 4042	Industrial Pharmacy Preceptorship	2
HPH 4114	Advanced Pharmacy Practice	4
General Studies		
Required Credits: 33		
	English, Arabic or other Languages	12
	Humanities or Art	3
	Information Technology or Mathematics	6
	The Natural Sciences	3
	The Social or Behavioural Sciences	9

Diploma in Pharmacy

Program Learning Outcomes

Students exiting with the Diploma will be able to:

1. Demonstrate a comprehensive knowledge of fundamental concepts of mathematics, bio-medical and pharmaceutical sciences including an understanding of the underlying theoretical and abstract concepts with significant depth in pharmacy and interdisciplinary areas.
2. Demonstrate knowledge and familiarity with brand and generic drug names, appearance, manufacturer, dosage forms(s), and route of administration for the most commonly used drugs.
3. Uphold legal and ethical standards to accurately implement international best pharmacy practice in interpreting prescriptions, preparing, labelling, packaging, processing and distributing medications while working under the supervision of a licensed pharmacist.
4. Demonstrate cognitive and psychomotor skills in using relevant advanced technologies, information systems, and communication devices in a variety of pharmacy practice settings.
5. Function, professionally, safely, and competently with little support as well as part of a team and take responsibility for developing appropriate approaches to managing complex work procedures and processes.
6. Demonstrate professional attributes while functioning in technical and non-technical contexts and take responsibility to develop the performance of their own and others.
7. Demonstrate responsibility for planning own life-long learning in order to improve competencies while actively observing ethical professional standards.

Completion Requirement

Students must successfully complete all Year 1 and 2 courses with a minimum of 71 credits including:	
Health Science Core Courses:	15 credits
Pharmacy Core Courses:	27 credits
Pharmacy Preceptorship Courses:	8 credits
General Studies:	21credits

Recommended Sequence of Study

Bachelor of Pharmacy

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Required Credits: 15			Required Credits: 15		
HSC 1803	Medical Terminology	3	HSC 1033	Anatomy and Physiology	3
HSC 1113	Intro to Healthcare Systems & Professional Practice	3	HSC 1023	Chemistry for Health Sciences	3
HSC 1013	Human Biology	3	HSC 1123	Work Health & Safety	3
LSC 1103	Academic Reading & Writing I	3	LSM 1113	Statistical Mathematics	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
Year 1 Summer Semester*			Year 2 Semester 4		
Required Credits:			Required Credits: 15		
Year 2 Semester 3			Year 2 Semester 4		
Required Credits: 18			Required Credits: 15		
HPH 1503	Introduction to Pharmacy	3	HPH 2113	Systems Pharmacology	3
HPH 2003	Biological Organic Chemistry	3	HPH 2153	Medicinal Chemistry I	3
HPH 2016	General Pharmacology	6	HPH 2123	Microbiology and Immunology	3
HPH 2023	Pharmaceutics I	3	HPH 2133	Pharmaceutics II	3
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
Year 2 Summer Semester*			Year 3 Semester 5		
Required Credits: 8			Required Credits: 16		
HPH 2034	Community Pharmacy Preceptorship	4	HPH 3006	Pathophysiology and Therapeutics I	6
HPH 2143	Clinical Pharmacy Preceptorship I	4	HPH 3043	Medicinal Chemistry II	3
Year 3 Semester 5			Year 3 Semester 6		
Required Credits: 16			Required Credits: 16		
HPH 3006	Pathophysiology and Therapeutics I	6	HPH 3163	Pathophysiology & Therapeutics II	3
HPH 3043	Medicinal Chemistry II	3	HPH 3133	Clinical Biochemistry & Toxicology	3
HPH 3054	Pharmaceutics III	4	HPH 3143	Pharmaceutical Analysis	3
LSS 1123	Basic Methods of Scientific Research and Development	3	HPH 3154	Clinical Pharmacy Preceptorship II	4
Year 3 Summer Semester*			Year 4 Semester 7		
Required Credits: 3			Required Credits: 17		
LSC 2103	Academic Reading and Writing II	3	HPH 4073	Pathophysiology and Therapeutics III	3
Year 4 Semester 7			Year 4 Semester 8		
Required Credits: 17			Required Credits: 16		
HPH 4073	Pathophysiology and Therapeutics III	3	HPH 4103	Pharmacy Law, Ethics and Pharmacoeconomics	3
HPH 4013	Complementary Medicine	3	HPH 4003	Biotechnology	3
HPH 4033	Pharmaceutical Care Practice Skills	3	HSC 4006	Capstone Research Project For HS	6
HSC 4003	Research Methods for Health Sciences programs	3	HPH 4113	Advanced Pharmacy Practice	4
HPH 4043	Industrial Pharmacy Preceptorship	2			
AES 3003	Professional Arabic	3			

* Additional courses may be offered in each Summer Semester at the discretion of the Academic Faculty.

Academic Staff

Amged Mustafa, PhD Pharmacology, Uppsala University, Sweden

Christianne Rizkalla, PhD Pharmaceutical Sciences, Cairo University, Egypt

Lamia AlHajri, Pharm.D. United Arab Emirates University, UAE

Sima Jabbari, Pharm.D. Purdue University, USA

Steven Zay, PhD Chemistry, Eotvos Lorand University; PhD Pharmaceutical Sciences, Semmelweis University, Budapest, Hungary

Bachelor of Social Work and Diploma in Child Protection

Admission to program

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

Program Mission

The social work program prepares Emirati nationals for professional social work and child protection employment that promotes social justice in both local and global contexts.

Program Description

Successful completion of the four-year, social work program will provide graduates with the knowledge, skills and competencies to work with individuals, families, groups and communities to solve problems and enhance social functioning. Graduates will be able to work in a variety of health and human service settings, and apply varied intervention methods to address problems such as child abuse, old age, disabilities, family and child relationships, family violence, mental illness and crisis management.

Students will have the option to graduate with a Diploma in Child Protection upon the successful completion of all required courses and field education. Successful completion of the two year Child Protection diploma will provide graduates with the knowledge, skills and competencies to work with children at risk for abuse and neglect.

Program Learning Outcomes

Bachelor of Social Work (NQF Level 7)

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

1. Apply the values, knowledge and skills from social work and related fields to provide quality health and human services in clinical and non-clinical settings.
2. Demonstrate effective generalist social work practice through the critical analysis of social policy, professional knowledge, and practice.
3. Utilize research and knowledge from associated disciplines to support social work practice that advocates for social justice in the local and global context.
4. Apply technical, research and analytical skills for social work practice with individuals, families, groups and communities.
5. Implement approaches and techniques for social work practice in diverse cultural contexts.

Autonomy and Responsibility

6. Develop approaches to managing and supervising complex practice within local and global contexts respecting socio-cultural norms and relationships.

Role and Context

7. Demonstrate the ability to maintain autonomy within supervisory contexts taking responsibility for managing team relationships and mentoring others in social work practice.

Self-Development:

8. Demonstrate the ability to self-evaluate and exhibit responsibility for contributing to and managing professional development and ethical standards of practice within diverse, complex and unfamiliar settings.

Program Learning Outcomes

Diploma in Child Protection (NQF Level 5)

1. Apply specialized knowledge to provide quality social services in clinical and non-clinical child protection settings.
2. Demonstrate effective relationships with children and families through integration of social work theory with ethical and legal standards of practice.
3. Assess and apply knowledge and methods for effective practices in child protection that promotes social justice in the local context.
4. Plan and implement child welfare interventions to promote the positive development of children and families.
5. Develop and maintain professional relationships through the application of culturally sensitive communication skills, problem solving methods and ethical standards.

Autonomy and Responsibility:

6. Coordinate the implementation of child protection processes, helping to guide teams in designing practices that support the development of healthy socio-cultural relationships.

Role in Context

7. Under guidance, demonstrate the ability to work both independently as well as part of team to both develop the performance of self and others within a diverse range of settings.

Self-Development:

8. Demonstrate ongoing development as a child protection worker responsible for comprehending and applying ethical standards.

Social Work Bachelor

Course Credits

Completion Requirements

Students must successfully complete a minimum of 122 credits as follows:	
Health Science Core Courses:	3 credits
Social Work Core Courses:	72 credits
Field Education Courses:	14 credits
General Studies:	33 credits

Child Protection Diploma

Completion Requirements

Students must successfully complete a minimum of 61 credits as follows:	
Health Science Core Courses:	3 credits
Social Work Core Courses:	33 credits
Field Education Courses:	4 credits
General Studies:	21 credits

Course Credits

Health Science Core Courses

Required Credits: 3

HSC 2203	Introduction to Psychology	3
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General Studies

Required Credits: 33

English, Arabic or other Languages	12
Information Technology or Mathematics	6
The Natural Sciences	3
Humanities or Art	3
The Social or Behavioural Sciences	9

Social Work Core Courses

Required Credits: 72

HSW 1003	Introduction to Social Work	3
HSW 1023	Basic Counselling Techniques	3
HSW 1033	Social Diversity and Justice	3
HSW 1223	Social Work Practice I	3
HSW 1233	Social Work and Child Protection in the UAE	3
HSW 1313	Human Behaviour in the Social Environment I	3
HSW 2013	Vulnerable Populations: Children and Family	3
HSW 2033	Law and Ethics in Social Work	3
HSW 2133	Social Work with Families	3
HSW 2143	Social Work Practice II	3
HSW 2323	Vulnerable Populations: Persons with Disabilities	3
HSW 3013	Social Work Practice III	3
HSW 3023	Human Behaviour in the Social Environment II	3
HSW 3103	Social Work with Groups	3
HSW 3033	Advanced Groupwork	3
HSW 3223	Social Work Action and Advocacy	3
HSW 4033	Social Policy and Development	3
HSW 4233	International Social Work	3
HSW 4223	Social Work Administration	3
HSW 4243	Psychological Health and Issues	3
HSW 4303	Social Work with Communities	3
HSW 4013	Research Methodologies for Social Work	3
HSW 4216	Capstone Research Project	6

Social Work and Child Protection Field Education Courses

Required Credits: 14

HSW 2324	Child Protection Field Education	4
HSW 3943	Social Work Field Education II	3
HSW 4927	Social Work Field Education III	7

Recommended Sequence of Study

Bachelor of Social Work

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Required Credits: 15			Required Credits: 15		
HSW 1003	Introduction to Social Work	3	HSW 1223	Social Work Practice I	3
HSW 1023	Basic Counseling Techniques	3	HSW 1233	Social Work and Child Protection in the UAE	3
HSW 1033	Diversity and Social Justice	3	HSW 1313	Human Behavior in the Social Environment I	3
LSC 1103	Academic Reading and Writing I	3	HSC 1233	Human Growth and Development	3
LSS 1003	Life and Study Skills	3	AES 1013	Arabic Communication I	3
Year 1 Summer Semester			Year 2 Semester 4		
Year 2 Semester 3			Required Credits: 16		
Required Credits: 15			Required Credits: 16		
HSW 2013	Vulnerable Populations: Children and Families	3	HSW 2143	Social Work Practice II	3
HSW 2033	Law and Ethics in Social Work	3	HSW 2323	Vulnerable Populations II: Persons with Disabilities	3
HSW 2133	Social Work with Families	3	ICT 2013	Computational Thinking and Coding	3
LSS 2403	Innovation and Entrepreneurship	3	AES 1003	Emirate Studies	3
LSS 1123	Basic Methods of Scientific Research	3	Year 3 Semester 6		
Year 2 Summer Semester			Required Credits: 15		
Required Credits: 4			Required Credits: 15		
HSW 2324	Child Protection Field Education	4	HSW 3033	Advanced Groupwork	3
Diploma in Child Protection Exit Option			HSW 3223	Social Work Action and Advocacy	3
Year 3 Semester 5			AES 3003	Professional Arabic	3
Required Credits: 15			LSC 2103	Academic Reading and Writing II	3
HSW 3013	Social Work Practice III	3	Year 4 Semester 8		
HSW 3023	Human Behavior in the Social Environment II	3	Required Credits: 16		
HSW 3103	Social Work with Groups	3	HSW 4216	Capstone Research Project	6
LSM 1113	Statistical Maths	3	HSW 4303	Social Work and Communities	3
HSC 2324	Introduction to Psychology	3	HSW 4927	Social Work Field Education III	7
Year 3 Summer Semester			Year 4 Semester 8		
Required Credits: 3			Required Credits: 16		
HSW 3943	Social Work Field Education II	3	Year 4 Semester 8		
Year 4 Semester 7			Required Credits: 16		
Required Credits: 15			Required Credits: 16		
HSW 4013	Research Methodologies for Social Work	3	Year 4 Semester 8		
HSW 4033	Social Policy and Social Development	3	Required Credits: 16		
HSW 4233	International Social Work	3	Year 4 Semester 8		
HSW 4223	Social Work Administration	3	Required Credits: 16		
HSW 4243	Psychological Health and Issues	3	Year 4 Semester 8		

Academic Staff

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Bachelor of Veterinary Science and Higher Diploma in Veterinary Laboratory Technology

Admission to program

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

Program Mission

The Bachelor of Veterinary Science program produces national veterinary bioscientists who have expertise in the following areas: animal and food biosecurity, public health, livestock production and health, and veterinary laboratory support services, as prioritized by Federal and Local UAE Authorities.

Program Description

The Bachelor of Veterinary Science program aims to produce Emirati national graduates to work as veterinary bioscientists to fulfill the need identified by the UAE government. The 4-years program provides graduates with expertise in the following areas: animal and food biosecurity, public health, livestock production and health, and veterinary laboratory support services, prioritized by federal and local UAE Authorities. This program allows full articulation of the existing Associate Degree in Veterinary Science.

Students will have the option to graduate with a Higher Diploma in Veterinary Laboratory Technology upon the successful completion of all required courses and preceptorships after 3 years of study.

Program Learning Outcomes

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

1. Demonstrate knowledge and policies and regulatory environments applicable to veterinary diagnostic laboratories, meat inspection, food safety, livestock health and production, and animal quarantine.
2. Apply knowledge regarding animal disease detection, management, prevention and surveillance, to enhance the quality of livestock production, and animal and food biosecurity.
3. Demonstrate effective cognitive and technical skills needed to advance animal and food biosecurity, public health, livestock health and production, and veterinary laboratory support services.
4. Demonstrate skills in using equipment, applying technologies and information systems that support and enhance animal and food biosecurity, public health, livestock health and production, and veterinary laboratory support services.
5. Demonstrate the ability to work independently and as part of a team in a diverse range of animal related, food safety related and laboratory based settings.
6. Demonstrate ability for life-long learning aimed to enhance skills as veterinary bioscientists.
7. Demonstrate professional attributes relevant to their roles as a veterinary bioscientists in animal and food biosecurity, public health, livestock health and production, and veterinary laboratory support services or pursuit of other career opportunities in the UAE.

Completion Requirements

		Course Credits
Veterinary Science Core Courses		
Required Credits: 81		
VET 1103	Veterinary Anatomy and Physiology I	3
VET 1203	Veterinary Anatomy and Physiology II	3
VET 1223	Animal Science and Husbandry	3
VET 1313	Physics for VET Sciences	3
VET 1403	Veterinary Terminology	3
VET 1413	Inorganic Chemistry	3
VET 2003	Veterinary Pathology	3
VET 2123	Animal Nutrition and Feeding	3
VET 2133	Systemic Pathology	3
VET 2213	Organic Chemistry	3
VET 2323	Biochemistry	3
VET 2423	Veterinary Microbiology	3
VET 3003	Veterinary Parasitology	3
VET 3033	Principles of Genetics and Animal Reproduction	3
VET 3103	Meat Inspection and Food Safety	3
VET 3113	Animal and Disease Prevention I	3
VET 3143	Veterinary Professional Practice	3
VET 3423	Clinical Pathology and Diagnostic Laboratory Tests	3
VET 4003	Pharmacology and Toxicology for Veterinary Science	3
VET 4033	Animal Disease and Prevention II	3
VET 4133	Wildlife and Aquaculture	3
VET 4113	Infectious Diseases and Animal Quarantine	3
VET 4123	Veterinary Epidemiology and Public Health	3
VET 4223	Veterinary Legislations and Animal Welfare	3
VET 4906	Veterinary specialised area Capstone Project	6
HSC 4003	Research Methods for Health Sciences	3

Veterinary Science Bachelor Completion Requirements

Students must successfully complete a minimum of 130 credits as follows:	
Veterinary Science Core Courses:	81 credits
Practicum Courses:	16 credits
General Studies:	33 credits

Course Credits

Practicum Courses

Required Credits: 22

VET 1904	Veterinary Preceptorship I	4
VET 2904	Veterinary Preceptorship II	4
VET 3904	Veterinary Preceptorship III	4
VET 4904	Veterinary Preceptorship IV	4

General Studies

Required Credits: 33

English, Arabic or other Languages	12
Humanities or Art	3
Information Technology or Mathematics	6
The Natural Sciences	3
The Social or Behavioural Sciences	9

Higher Diploma in Veterinary Laboratory Technology

(NQF Level 6)

Program Learning Outcomes

Students exiting with the Higher Diploma will be able to:

1. Apply knowledge, critical thinking and problem solving skills in animal health sector.
2. Practice skills learned to assist veterinary medical teams in public and private veterinary health services.
3. Demonstrate the ability to work as part of a team in a diverse range of animal related, food safety related and laboratory based settings.
4. Apply skills in using equipment, technologies and information systems that support veterinary laboratory diagnostic services.
5. Demonstrate professional attributes relevant to their roles as veterinary technologists in veterinary laboratory support services or pursuit of other career opportunities.

Completion Requirements

Students must successfully complete all Year 1, 2 and 3 courses with a minimum of 99 credits including:	
Veterinary Core Courses:	54 credits
Veterinary Practicum Courses:	12 credits
General Studies:	33 credits

Recommended Sequence of Study

Bachelor of Veterinary Science

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
(Year 1) Semester 1			(Year 1) Semester 2		
Required Credits: 15			Required Credits: 15		
LSC 1103	Academic Reading and Writing I	3	AES 1013	Arabic Communication I	3
LSS 1003	Life Study Skills	3	VET 1203	Anatomy & Physiology II (incl. Histology)	3
VET 1103	Anatomy & Physiology I	3	VET 1223	Animal Science and Husbandry	3
VET 1123	General Chemistry	3	VET 1313	Physics for VET Sciences	3
VET 1403	Veterinary Terminology	3	VET 1413	Inorganic Chemistry	3
(Year 1) Summer Semester*			(Year 2) Semester 3		
Required Credits: 4			Required Credits: 15		
VET 1904	Veterinary Preceptorship I	4	LSC 2103	Academic Reading and Writing II	3
(Year 2) Summer Semester*			(Year 2) Semester 4		
Required Credits: 4			Required Credits: 15		
VET 2904	Veterinary Preceptorship II	4	AES 1003	Emirati Studies	3
(Year 3) Semester 5			(Year 3) Semester 6		
Required Credits: 15			Required Credits: 12		
LSS 2403	Innovation and Entrepreneurship	3	LSS 1123	Basic Methods of Scientific Research and Development	3
AES 3003	Professional Arabic	3	VET 3103	Meat Inspection and Food Safety	3
VET 3003	Veterinary Parasitology	3	VET 3113	Animal Disease and Prevention I	3
VET 3033	Principles of Genetics and Animal Reproduction	3	VET 3143	Veterinary Professional Practice	3
VET 3423	Clinical Pathology and Diagnostic Laboratory Tests	3			
(Year 3) Summer Semester*			(Year 4) Semester 7		
Required Credits: 4			Required Credits: 16		
VET 3904	Veterinary Preceptorship III	4	HSC 4003	Research Methods for Health Sciences	3

Exit – Higher Diploma in Veterinary Laboratory Technology

(Year 4) Semester 7			(Year 4) Semester 8		
Required Credits: 16			Required Credits: 15		
VET 4003	Pharmacology & Toxicology for Veterinary Science	3	VET 4223	Veterinary Legislations & Animal Welfare	3
VET 4113	Infectious Diseases and Animal Quarantine	3	VET 4123	Veterinary Epidemiology & Public Health	3
VET 4033	Animal Disease and Prevention II	3	VET 4133	Wildlife and Aquaculture	3
VET 4904	Veterinary Practicum IV	4	VET 4906	Veterinary specialized area Capstone Project	6

* Additional courses may be offered in each Summer Semester at the discretion of the Academic Faculty.

Academic Staff

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