VETERINARY SCIENCE

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 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

Bachelor of Veterinary Science

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

1. Apply the knowledge of ethics, policies, and regulations applicable to veterinary diagnostic laboratories and clinics, meat inspection, food safety and public health, livestock health and production, and animal quarantine.
2. Utilize evidence-based practice research and industry guidelines to improve animal wealth, production, and food biosecurity and safety.
3. Demonstrate technical skills to be applied in the development of an enterprise or to be part of an enterprise related to the animal and food biosecurity, public health, livestock health and production, and veterinary laboratory services. (Technical leader).
4. Demonstrate competency 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 services
5. Demonstrate the ability to work independently and as part of a team in an evolving, competitive diverse range of animal-related, food safety and laboratory-based settings.
6. Demonstrate life-long learning competency aimed to understanding the implications of new information for both current and future problem-solving and decision-making.
7. Demonstrate entrepreneurial attributes to initiate and integrate new ideas relevant to veterinary practice in animal and food biosecurity, public health, livestock health and production, and veterinary laboratory services. (Graduating companies).

Higher Diploma in Veterinary Laboratory Technology (NQF Level 6)

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

1. Apply knowledge, critical thinking, and problem-solving skills in the animal health sector and related industry.
2. Practice experience-based learned skills to assist veterinary medical teams in diverse veterinary settings.
3. Demonstrate the ability to work independently, as part of or lead a technical team and take responsibility in managing interactions with others in a diverse range of practice settings. (Technical Leaders).
4. Apply skills in using equipment, technologies and information systems that support industry and veterinary laboratory diagnostic services.
5. Demonstrate entrepreneurial attributes to initiate and integrate new ideas relevant to veterinary practice in animal and food biosecurity, public health, livestock health and production, and veterinary laboratory services. (Graduating companies).

Requirements

Completion Requirements

Bachelor of Veterinary Science

Students must successfully complete a minimum of 130 credits as follows:

Code	Title	Credit Hours
Veterinary Science Core Courses		78
General Studies		33
Health Sciences Core Course		3
Practicum Courses		16
Total Credit Hours		130

Higher Diploma in Veterinary Laboratory Technology

Students must successfully complete all Year 1, 2 and 3 courses with a minimum of 99 credits including:

Code	Title	Credit Hours
Veterinary Science Core Courses		54
Practicum Courses		12
General Studies		33
Total Credit Hours		99

Code	Title	Credit Hours
Veterinary Science Core Courses		
Required Credits: 78		
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 4113	Infectious Diseases and Animal Quarantine	3
VET 4123	Veterinary Epidemiology and Public Health	3
VET 4133	Wildlife and Aquaculture	3
VET 4223	Veterinary Legislations and Animal Welfare	3
VET 4906	Veterinary Capstone Project	6
Health Science Core Course		
Required Credit : 3		
HSC 4003	Research Methods for Health Sciences	3
Veterinary Science Practicum Courses		
Required Credits: 16		
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		
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	130
Maximum Duration of Study	6 years
Minimum Duration of Study	4 years
Cost Recovery Program	No
Program Code	BHVET
Major Code	VETB

Ideal Study Plan
Recommended Sequence of Study

Year 1

Semester 1		**Credit Hours**
LSC 1103	Professional Communication and Reporting	3
LSS 1003	Life and Future Skills	3
VET 1103	Veterinary Anatomy and Physiology I	3
VET 1123	General Chemistry	3
VET 1403	Veterinary Terminology	3
	Credit Hours	15
Semester 2		
AES 1013	Arabic Communications 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 1413	Inorganic Chemistry	3
	Credit Hours	15
Summer		
VET 1904	Veterinary Preceptorship I	4
	Credit Hours	4
Year 2		
Semester 3		
LSM 1113	Statistical Mathematics	3
LSS 1123	Basic Research Methods	3
VET 2003	Veterinary Pathology	3
VET 2123	Animal Nutrition and Feeding	3
VET 2213	Organic Chemistry	3
	Credit Hours	15
Semester 4		
AES 1003	Emirati Studies	3
ICT 2013	Computational Thinking and Coding	3
VET 2133	Systemic Pathology	3
VET 2323	Biochemistry	3
VET 2423	Veterinary Microbiology	3
	Credit Hours	15
Summer		
VET 2904	Veterinary Preceptorship II	4
	Credit Hours	4
Year 3		
Semester 5		
AES 1033	Islamic Culture	3
BUS 2403	Innovation and Entrepreneurship	3
VET 3003	Veterinary Parasitology	3
VET 3033	Principles of Genetics and Animal Reproduction	3
VET 3423	Clinical Pathology and Diagnostic Laboratory Tests	3
	Credit Hours	15
Semester 6		
LSC 2193	Applied Skills Capstone	3
VET 3103	Meat Inspection and Food Safety	3
VET 3113	Animal and Disease Prevention I	3
VET 3143	Veterinary Professional Practice	3
	Credit Hours	12
Summer		
VET 3904	Veterinary Preceptorship III	4
Higher Diploma in Veterinary Laboratory Technology exit		
	Credit Hours	4
Year 4		
Semester 7		
HSC 4003	Research Methods for Health Sciences	3

VET 4003	Pharmacology and Toxicology for Veterinary Science	3
VET 4033	Animal Disease and Prevention II	3
VET 4113	Infectious Diseases and Animal Quarantine	3
VET 4904	Veterinary Preceptorship IV	4
	Credit Hours	16
Semester 8		
VET 4123	Veterinary Epidemiology and Public Health	3
VET 4133	Wildlife and Aquaculture	3
VET 4223	Veterinary Legislations and Animal Welfare	3
VET 4906	Veterinary Capstone Project	6
	Credit Hours	15
	Total Credit Hours	130

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

Faculty and Academic Staff

Rabiha Seboussi, Assistant Professor, PhD, SUPAGRO. Montpellier France 2008

Rashid Manzoor, Assistant Professor, PhD, Hokkaido University, Japan 2008

Adem Rama, Assistant Professor, PhD, University of Padova, Italy.2011

Mohamed Elsokary, Lecturer**,** PhD, Illinois University, USA- Benha University, Egypt. 2018

Yasser Mahmmod, Lecturer, PhD, University of Copenhagen, Denmark, 2013

Adel Afify, Lecturer**,** PhD, Cairo University- Inje University, South Korea.2010

Dina Mohammed, Clinical Instructor, Bachelor, University of Jordan, 2007

Mahmoud Hussein, Clinical Instructor, Bachelor of Veterinary medicine. Zagazig University, Egypt 2011

Mahmoud Mohamadin, Clinical Instructor, Bachelor of Veterinary Medicine, Alexandria University, Egypt. 1999