

# 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.

## Program Goals

1. Equip the students with skills, competencies, and experience needed for a qualified veterinary technician who meets national and international veterinary standards.
2. Graduate VET students with expertise in veterinary domains in accordance with federal and local UAE Authorities.
3. Engage students and faculty in innovative, applied research projects to solve industry problems and promote animal and public health care, including disease investigation and prevention.
4. Promote student-faculty interaction and participation in veterinary education activities for individuals and communities.
5. Graduate competent veterinary students with robust entrepreneurial skills to initiate and integrate new ideas relevant to modern veterinary practice.

## 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).

## 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
<b>Total Credit Hours</b>		<b>130</b>

Code	Title	Credit Hours
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#### 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
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**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	BHNET
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
<b>Credit Hours</b>		<b>15</b>
Semester 2		Credit Hours
AES 1013	Arabic Communications	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
<b>Credit Hours</b>		<b>15</b>
Summer		Credit Hours
VET 1904	Veterinary Preceptorship I	4
<b>Credit Hours</b>		<b>4</b>

**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
<b>Credit Hours</b>		<b>15</b>

**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
<b>Credit Hours</b>		<b>15</b>

**Summer**

VET 2904	Veterinary Preceptorship II	4
<b>Credit Hours</b>		<b>4</b>

**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
<b>Credit Hours</b>		<b>15</b>

**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
<b>Credit Hours</b>		<b>12</b>

**Summer**

VET 3904	Veterinary Preceptorship III	4
<b>Credit Hours</b>		<b>4</b>

**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
<b>Credit Hours</b>		<b>16</b>

**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
<b>Credit Hours</b>		<b>15</b>

**Total Credit Hours****130**

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

## Faculty and Academic Staff

**Adem Rama**, PhD(Public Health), University of Padova, Italy.

**Dina Mohammed**, Bachelor(Medical analysis), University of Jordan, Jordan.

**Hazem Al-Bwaneh**, Master (Veterinary Surgery), Jordan University of Science and Technology, Jordan

**Ibrahim Abdulazeez Okene**, PhD (Pathology), Universiti Putra Malaysia, Malaysia.

**Mahmoud Hussein**, Bachelor(Veterinary medicine), Zagazig University, Egypt.

**Mahmoud Mohamadin**, Master(Veterinary Medicine), Kafr-Elshekh University, Egypt.

**Mohamed Abdelmegeid**, PhD (Internal Medicine), Kafrelsheikh University, Egypt.

**Mohamed Eltholoth**, PhD(Virology), University of Mansoura, Egypt.

**Mohamed Mostafa**, PhD(Theriogenology), Illinois university-Benha University, Egypt.

**Rabiha Seboussi**, PhD(Animal nutrition), SUPAGRO. Montpellier, France

**Rashid Manzoor**, PhD(Virology), Hokkaido University, Japan.

**Yasser Mahmmod**, PhD(Medical Science), University of Copenhagen, Denmark.