

VETERINARY SCIENCE

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 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. 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.

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 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.

Requirements

Veterinary Science Bachelor

Completion Requirements

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

Code	Title	Credit Hours
	Veterinary Science Core Courses	81
	Practicum Courses	16
	General Studies	33
	Total Credit Hours	130

Higher Diploma in Veterinary Laboratory Technology

Completion Requirements

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: 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 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
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

Ideal Study Plan

Recommended Sequence of Study

Year 1		Credit Hours
Semester 1		
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 1		
LSC 2103	Academic Reading and Writing II	3
LSM 1113	Statistical Mathematics	3
VET 2003	Veterinary Pathology	3
VET 2123	Animal Nutrition and Feeding	3
VET 2213	Organic Chemistry	3
Credit Hours		15
Semester 2		
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 1		
AES 3003	Professional Arabic	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 2		
LSS 1123	Basic Research Methods	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 1		
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
Credit Hours		12
Semester 2		
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
Summer		
VET 4904	Veterinary Preceptorship IV	4
Credit Hours		4
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 Veterinary Public Health. University of Padova, Italy.

Rabiha Seboussi, Post-Doctorate: Department of Animal Science, Laval University, PhD, SUPAGRO. Montpellier

Ensaf Taha, Doctor of Veterinary Medicine, University of Faisalabad, Pakistan