**ANNUAL REPORT YEAR 2020**

**DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY**

**BRIEF HISTORY**

The **Department of Veterinary Anatomy and Physiology** is a preclinical department Located in Chiromo campus along Riverside Drive, off Chiromo Road, 2 kilometres west of the Main Campus. The Department is the product of the notable merger of the two of the oldest and well-known departments in the faculty of Veterinary Medicine –Veterinary Anatomy and Animal Physiology that occurred in 2005. The two departmental units had their origin within the establishment of the Faculty of Veterinary Medicine and were transferred from Makerere University College to the Royal College Nairobi in 1962. Veterinary Medicine students and wildlife Management students   are prepared for various fields in the Veterinary Anatomy and physiology in the department.

**BRIEF INTRODUCTION**

The **Department of Veterinary Anatomy and Physiology** is a Department of **The Faculty of Veterinary Medicine, College of agriculture and Veterinary Science.** It is located at **Chiromo Campus**. The Department teaches Preclinical Veterinary Students Animal Physiology and Veterinary Anatomy. It offers courses to ***BSc wildlife students*** specifically Veterinary Anatomy, Ecophysiology, Ornithology, Icthyology, Herpetology and Wildlife Behaviour. The Department also offers service undergraduate courses to the Faculty of Agriculture and College of Health Sciences **(BSc. Biochemistry)**. Postgraduate service courses are offered to the Department of Animal Production and The School of Biological Sciences ***(MSc. Biology of Conservation)***.

**PROGRAMME PORTFOLIO**

**NUMBERS OF PROGRAMMES**

|  |  |  |
| --- | --- | --- |
| **SN** | **Level of Study** | **Number** |
| **1** | Certificate | **0** |
| **2** | Ordinary Diploma | **0** |
| **3** | Bachelors | **3** |
| **4** | Post graduate Diploma | **0** |
| **5** | Masters | **3** |
| **6** | Doctorate | **3** |

1. **J30**. [**Bachelor of Veterinary Medicine**](https://vetanatomy.uonbi.ac.ke/admission-content-type/bachelor-veterinary-medicine) **5 Years**
2. **J42. Bachelor of Science in Wildlife Management and Conservation 4 Years.**
3. **J49. Bachelor of Science in fisheries and aquaculture management 4 Years**
4. **J56** [**Master of Science in Reproductive Biology**](https://vetanatomy.uonbi.ac.ke/admission-content-type/master-science-reproductive-biology) **3 Years.**
5. **J56** [**Master of Science in Veterinary Anatomy and Cell Biology**](https://vetanatomy.uonbi.ac.ke/admission-content-type/master-science-veterinary-anatomy-and-cell-biology) **2 Years.**
6. **J56 Master of Science in Comparative Physiology 2 Years.**
7. **J87 Doctor of Philosophy (PhD) in the Faculty of Veterinary Medicine 3 Years.**

**Bachelor of Veterinary Medicine**

 [**Admission Requirements**](https://vetanatomy.uonbi.ac.ke/admission-content-type/bachelor-veterinary-medicine#edit-group-a)

Candidates eligible for admission to the above degree programmes will be required to be holders of the following qualifications:

3.1 A minimum of a C+ in KCSE with a C (plain) in biology or biological science and/any one of the following: Mathematics, Chemistry, Physics or Physical Sciences, Geography.

3.2 Two principals and a subsidiary pass in KACE.  One of these passes must be in Biology and the other in any science subject.

3.3 A minimum of a C- (minus) in KCSE with a diploma in biological science from a recognized institution.

3.4 Holders of a degree in biological science from a recognized institution.

3.5 Any other qualification equivalent to any of the above, subject to Senate’s approval.

**FEES STRUCTURE**

|  |  |
| --- | --- |
| **Semester I** | **135,000** |
| **Semester II** | **135,000** |

**CAREER PATHS**

Veterinarian-small animal practice, large animal practice, exotic, zoological

Veterinary Technologist –veterinary investigative labolatories

Veterinary Assistant

Clinical Pathologist

Academia- lecturer in TVETs

Medical sales representative

Large scale dairy manager

Veterinary officer (Ministry of Livestock and fisheries

Researcher).

**Bachelor of Science in Wildlife Management and Conservation**

**Admission Requirements**

Candidates eligible for admission to the above degree programmes will be required to be holders of the following qualifications:

3.1 A minimum of a C+ in KCSE with a C (plain) in biology or biological science and/any one of the following: Mathematics, Chemistry, Physics or Physical Sciences, Geography.

3.2 Two principals and a subsidiary pass in KACE.  One of these passes must be in Biology and the other in any science subject.

3.3 A minimum of a C- (minus) in KCSE with a diploma in biological science from a recognized institution.

3.4 Holders of a degree in biological science from a recognized institution.

3.5 Any other qualification equivalent to any of the above, subject to Senate’s approval.

**FEES STRUCTURE**

|  |  |
| --- | --- |
| **Semester I** | **125,000** |
| **Semester II** | **125,000** |

**CAREER PATHS**

**Employment by Kenya wildlife Services, Kenya fisheries Department, ministry of Livestock and fisheries, commercial fish processers, private/public fisheries, ministry of tourism, private conservancies**

**Bachelor of Science in Fisheries and Aquaculture Management**

Candidates eligible for admission to the above degree programmes will be required to be holders of the following qualifications:

3.1 A minimum of a C+ in KCSE with a C (plain) in biology or biological science and/any one of the following: Mathematics, Chemistry, Physics or Physical Sciences, Geography.

3.2 Two principals and a subsidiary pass in KACE.  One of these passes must be in Biology and the other in any science subject.

3.3 A minimum of a C- (minus) in KCSE with a diploma in biological science from a recognized institution.

3.4 Holders of a degree in biological science from a recognized institution.

3.5 Any other qualification equivalent to any of the above, subject to Senate’s approval.

**FEES STRUCTURE**

|  |  |
| --- | --- |
| **Semester I** | **125,000** |
| **Semester II** | **125,000** |

**CAREER PATHS**

**Employment by Kenya wildlife Services, Kenya fisheries Department, ministry of Livestock and fisheries, commercial fish processers, private/public fisheries, ministry of tourism**

[**Master of Science in Reproductive Biology**](https://vetanatomy.uonbi.ac.ke/admission-content-type/master-science-reproductive-biology)

**Admission Requirements**

1. The common regulations for the Master's Degrees in all Faculties of the University of Nairobi shall apply.
2. Those eligible for admission shall be:
* Holders of a Bachelors degree in Veterinary Medicine of the University of Nairobi.
* Holders of a Bachelor’s degree from other Universities approved by Senate as being equivalent to the Degree of Bachelor of Veterinary Medicine of the University of Nairobi.

**FEES STRUCTURE**

|  |  |  |  |
| --- | --- | --- | --- |
| **YEAR I** | **150,000** |  |  |
| **YEAR II** | **100,000** |  |  |

**CAREER PATHS**

Researcher in Reproductive Biology

Officer in Public health department

Lecturer in TVETs

Lecturer in universities

[**Master of Science in Veterinary Anatomy and Cell Biology**](https://vetanatomy.uonbi.ac.ke/admission-content-type/master-science-veterinary-anatomy-and-cell-biology)

**Admission Requirements**

**Minimum Admission requirements**

**3.1.1** The common regulations for the Master's Degrees in all faculties shall apply.

**3.1.2** The regulations for the Degree of Master of Science by course work and thesis in the Faculty of Veterinary Medicine shall apply.

**3.1.3** The following shall be eligible for registration for the degree of Master of Science in Anatomy and Cell Biology:

**3.1** Holders of BVM or MBChB degrees or equivalent degrees from any institution recognized by the senate of the University of Nairobi.

**3.2**Holders of B.Sc. (Zoology, Biology, Animal Physiology or Anatomy) of the University of Nairobi or a recognized University with at least upper second-class honors or lower second class honors with a minimum of two (2) years’ work experience in a relevant field.

**Credit Transfer and Exemption**

**3.2.1 CREDIT TRANSFER**

 Applicants may seek credit transfers or exemptions for similar

 courses taken at Masters level from the University of Nairobi or

 other institutions recognized by senate.

 Applicants who wish to apply for credit transfer in any course:

(i) Shall be required to submit formal applications for credit transfers to the Director, Board of Postgraduate Studies through the dean justifying their request and attaching relevant support documents.

(ii) Will be allowed credit transfer of a maximum of one-third of the prescribed courses.

(iii) Can only be considered for the request after the applicant has paid the appropriate fee as may be decided by the Senate on recommendation by the Faculty Board.

**FEES STRUCTURE**

|  |  |
| --- | --- |
| YEAR I | 150,000 |
| YEAR II | 100,000 |

**CAREER PATHS**

Researcher in Reproductive Biology

Officer in Public health department

Lecturer in TVETs

Lecturer in universities

**Master of Science in Comparative Physiology**

**Admission Requirements**

1. The common regulations for the Master's Degrees in all Faculties of the University of Nairobi shall apply.
2. Those eligible for admission shall be:
* Holders of a Bachelors degree in Veterinary Medicine of the University of Nairobi.
* Holders of a Bachelors degree from other Universities approved by Senate as being equivalent to the Degree of Bachelor of Veterinary Medicine of the University of Nairobi.

**FEES STRUCTURE**

|  |  |
| --- | --- |
| **YEAR I** | **150,000** |
| **YEAR II** | **100,000** |

**CAREER PATHS**

Researcher in Reproductive Biology

Officer in Public health department

Lecturer in TVETs

Lecturer in universities

**Doctor of Philosophy (PhD) In the Faculty of Veterinary Medicine**

**Admission Requirements**

**Admission into the programme shall be opened to:**

**1. Holders of Master of Science degree in Clinical Studies of the University of Nairobi.**

**2. Holders of a Master of Science degree in Clinical Studies from other Universities which has been approved by the Senate to be equivalent to the Master of Science in Clinical Studies, University of Nairobi.**

**3. Holders of the Bachelor’s degree in Veterinary Medicine or equivalent who, having been validly registered for Master’s degree in the University of Nairobi, have been allowed by Senate to have their Master's degree upgraded to a Doctoral level in the prescribed manner.**

**4. Candidates will be required to draw and submit a detailed Doctoral research proposal in the prescribed manner at the time of applying for admission.**

**FEES STRUCTURE**

|  |  |
| --- | --- |
| YEAR I | 150,000 |
| YEAR II | 150,000 |
| Year II | 150,000 |

**CAREER PATHS**

Researcher in research institutions

Lecturer in universities

**STRATEGIC ISSUES**

**MISSION**

To provide leadership in pursuit and dissemination of knowledge in Anatomical and Physiological Sciences.

**VISION**

To be a world-class Institute of Anatomy and Physiology, providing qualitative knowledge in Anatomy and Physiology to those who rightfully seek it and conducting world-class research in these fields. Anatomy and Physiology are the cornerstones of a healthy functioning body and the starting point of many health related professions and we endeavor to give the students a solid base in these disciplines. In addition, our aspirations are to provide services related to Anatomy and Physiology such taxidermy, preparation of specimens for laboratories, schools and institutions of higher learning.

**CORE ACTIVITIES**

The department instructs in the biomedical sciences related to animal Anatomy and Physiology. The department trains students in basic anatomy and physiology in the degree programs leading to Bachelor of Veterinary Medicine (BVM), Bachelor of Science in Agriculture, Range Management and Food Science and Technology (BSc. Agric., BSc. Range Management and BSc. Food Science and Technology), Bachelor of Science in Biomedical Technology (BSc. BT) and Bachelor of Science in Wildlife Management, and Conservation, Tourism Management, Fisheries and Wetlands Management (BSc. Wildlife Management and Conservation, BSc. Wildlife Conservation and Tourism Management, BSc Wildlife Conservation and Wetlands Management and BSc Wildlife Conservation and Fisheries Management). The department also teaches mammalian histology to students of the BSc Biochemistry degree program. The department also trains students at post-graduate level in Masters of Science (MSc.) and Doctor of Philosophy (PhD) degrees in Anatomical and Physiological Sciences.

**MAJOR ACHIEVEMENTS IN 2020**

* Graduated 3 masters’ students.
* Managed to dispose old obsolete and unusable equipment and furniture, for the first time in two decades
* Managed to promote 3 technologists to Assistant Chief Technologists.
* Managed two secure three toxicological analysis projects from the industry.

**STAFF PORTFOLIO**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TITLE** | **SURNAME** | **OTHER NAMES** | **DESIGNATION** | **QUALIFICATIONS** |
| PROF. | OWITI | GEORGE OTIANGA | ASSOCIATE PROFESSOR | BVM, MSc, PhD |
| PROF. | WARUI | CHARLES NDERITU | ASSOCIATE PROFESSOR | BVM, PhD |
| PROF. | ODUMA | JEMIMAH ACHIENG | ASSOCIATE PROFESSOR | BVM, MSc, PhD |
| PROF. | MATHIU | PETER MBAABU | ASSOCIATE PROFESSOR | BVM, PhD |
| DR. | MWANGI | DETER KARUORO | SENIOR LECTURER | BVM, DVM, PhD |
| MR. | KAMONDE | SAMUEL WACHIRA | ASSISSTANT CHIEF TECHNOLOGIST | DIPLOMA |
| MR. | OCHOLA | MORRIS O | TECHNICAL ASSISTANT | CERTIFICATE |
| DR. | ONYANGO | DANIEL W. | SENIOR LECTURER | BVM, MSc, PhD |
| MR. | KIGURU | PETER KIMANI | CHIEF TECHNOLOGIST | HND,  |
| PROF. | KIMWELE | CHARLES NGULI | ASSOCIATE PROFESSOR | BVM, MSc, PhD |
| DR. | MACHERU | PURITY WANGECI | LECTURER | BVM, MSc,  |
| PROF. | MAKANYA | ANDREW NDEGWA | ASSOCIATE PROFESSOR | BVM, MSc, DVM, PhD |
| DR. | TOWET | PHILEMON KIPKEMOI | SENIOR LECTURER | BVM, MSc, PhD |
| MR. | MWASELA | AMOS HANNINGTON TANGAI | TECHNOLOGIST | DIPLOMA |
| DR. | OJOO | RODI OMONDI | LECTURER | BVM, MSc, PhD |
| MR. | MUGWERU | JACKSON | PRINCIPAL TECHNOLOGIST | DIPLOMA, BSc |
| DR. | MUKHWAYA | CHARLES GODFREY | CHIEF TECHNOLOGIST | BVM |
| MR. | MARETE | STANLEY GIKUNDI | TECHNICAL ASSISTANT | CERTIFICATE |
| MS. | OSORO | IRENE | CHIEF TECHNOLOGIST | DIPLOMA, BVM |
| MR. | OKUMU | FRANCIS VINCENT | SENIOR TECHNOLOGIST | DIPLOMA |
| DR. | KAVOI | BONIFACE MWANZIA | LECTURER | BVM, MSc, PhD |
| MS. | KAGINA | MARGARET MUTHONI | ASSISSTANT CHIEF TECHNOLOGIST | DIPLOMA |
| MR. | TSUMA | ROBERT MARTIN KHAYO | SENIOR TECHNOLOGIST | DIPLOMA |
| MR. | MAGUTA | PETER IRUNGU | ASSISSTANT CHIEF TECHNOLOGIST | DIPLOMA |
| MR. | KEYA | GABRIEL KEYA | CLEANER | CERTIFICATE |
| DR. | WAFULA | NYONGESA ALBERT | LECTURER | BVM, MSc, PhD |
| MR. | KWOBA | DANIEL NYUKURI | SENIOR TECHNOLOGIST | DIPLOMA |
| MS. | NGAYWA | CATHERINE A. CHELEDI | SENIOR TECHNOLOGIST | DIPLOMA |
| DR. | KAINGU | CATHERINE KALUWA | LECTURER | BVM, MSc, PhD |
| DR. | OCHWANG'I | DOMINIC OMOSA | LECTURER | BVM, MSc, PhD |
| DR. | WAMBUGU | STANLEY NDIRITU | LECTURER | BVM, MSc, PhD |
| DR. | KIMANI | JOHN MUTURI | LECTURER | BVM, MSc, |
| DR. | NASIMOLO | JOHNSON | LECTURER | BVM, MSc, |
| MS. | WANJOHI | MILKAH MUTHONI | SENIOR TECHNOLOGIST | DIPLOMA |
| MS. | NZIOKI | MARY NDULU | TRAINEE TECHNOLOGIST | DIPLOMA |
| MR. | EKAPOLON | CHARLES ORUPTO | TRAINEE TECHNOLOGIST | DIPLOMA |
| MR. | KIAI | JOHN KAGUNDA | SENIOR TECHNOLOGIST | DIPLOMA |

**CORPORATE AND COMMUNITY OUTREACH ACTIVITIES**

**Establishment of covid 19 mitigation infrastructure and logistics**

**Due to the pandemic, outreach programs were suspended.**

**PROJECTIONS**

* **Increase in consultancy activities (both specimen preparation and toxicological analysis).**
* **Increase in postgraduate student enrolment.**
* **Improved mentorship of undergraduate students.**
* **Increase in student progression to the subsequent year of study.**