



# University of Pretoria Yearbook 2024

## Bachelor of Veterinary Sciences [BVSc] (08130005)

**Department** Veterinary Science Dean's Office

**Minimum duration of study** 6 years

**Total credits** 833

**NQF level** 08

### Programme information

This programme is accredited with the South African Veterinary Council (SAVC), Royal College of Veterinary Surgeons (RCVS) and the Australasian Veterinary Boards Council (AVBC).

Each student must apply immediately after registration at UP, to the Registrar of the South African Veterinary Council for registration as a student in Veterinary Science. Registration is compulsory and must be renewed annually for the duration of the study.

After the degree has been conferred, graduates are required to register with the South African Veterinary Council as veterinarians before they may practise in South Africa in this capacity.

After completing the degree a Compulsory Community Service (CCS) year is required by the state. Graduates will be employed for one year of Compulsory Community Service by the national Department of Agriculture, Land Reform and Rural Development (DALRRD). More information can be obtained from DALRRD.

Also refer to General Regulations G1-G15.

### Admission requirements

#### Important information for all prospective students for 2024

The admission requirements below apply to all who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications**. [Click here for this Faculty Brochure](#).

**Enquiries:** [click here](#)

#### Minimum requirements

#### Achievement level

#### English Home

#### Language or

#### English First

#### Additional

#### Language

NSC/IEB

5

#### Mathematics

NSC/IEB

5

#### Physical Sciences

NSC/IEB

5

#### APS

**35**

**Proposed second choice programmes for BVSc** are BSc (Biological Sciences), BSc (Zoology) and BScAgric

(Animal Science). These programmes are also recommended for applicants who intend to apply again for a transfer to the BVSc programme in 2024 or later. Note: Students who intend to apply for admission to BVSc may register for BSc (Biological Sciences) modules, including Medical Terminology (MTL 180).

Life Orientation is excluded when calculating the APS.

Applicants currently in Grade 12 must apply with their final Grade 11 (or equivalent) results.

Applicants who have completed Grade 12 must apply with their final NSC or equivalent qualification results.

Please note that meeting the minimum academic requirements does not guarantee admission.

Successful candidates will be notified once admitted or conditionally admitted.

Applicants should check their application status regularly on the UP Student Portal at [click here](#).

**Applicants with qualifications other than the abovementioned** should refer to the Brochure: Undergraduate Programme Information 2024: Qualifications other than the NSC and IEB, available at [click here](#).

**International Students:** [Click here](#).

### Transferring students

A transferring student is a student who, at the time of applying at the University of Pretoria (UP) is/was a registered student at another tertiary institution. A transferring student will be considered for admission based on NSC or equivalent qualification and previous academic performance. Students who have been dismissed from other institutions due to poor academic performance will not be considered for admission to UP.

**Closing dates:** Same as above

### Returning students

A returning student is a student who, at the time of application for a degree programme is/was a registered student at UP, and wants to transfer to another degree at UP. A returning student will be considered for admission based on NSC or equivalent qualification and previous academic performance.

- Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP, as per faculty-specific requirements.
- Only ONE transfer between UP faculties and TWO transfers within a faculty will be allowed.
- Admission of returning students will always depend on the faculty concerned and the availability of space in the programmes for which they apply.

**Closing date for applications from returning students** is the same as the above

**Note:** Any deliberate omission of information, or any false information provided by an applicant in his/her application or on the Veterinary Science Value-added Form (VSVAf) may result in the immediate cancellation of the application, admission or registration.

## Additional requirements

Refer to the undergraduate admission regulation of the Faculty of Veterinary Science.

## Examinations and pass requirements

The following rules apply to undergraduate programmes in the faculty, with the exception of pass requirements of service modules presented by other faculties:

**Also refer to UP General Academic Regulations and General Student Rules**



- i. Attendance of all lectures, practicals and clinical duties is compulsory. Absence must be justified by submission of a medical certificate or valid documentation, within three working days after returning. Failure to comply may lead to examination refusal.
- ii. Students in all undergraduate programmes in the faculty must register for all modules in a particular year of study and may not deregister modules.
- iii. A student who fails one or more modules fails the particular year of study and must repeat the failed module(s) before being promoted to the next year of study.
- iv. In addition to clause iii., a fourth, fifth or final year student in the BVSc programme or a second year student in the BVetNurs programme who fails a module or modules, has to repeat, all the modules for that particular year of study, except modules which were passed with a final mark of 65% or more, for which full exemption is granted during the repeat year.
- v. For students repeating the fourth, fifth or sixth year of the BVSc programme, or the second year of the BVetNurs programme, exemption from the examination is granted for a module that was passed in the previous (failed) year if all lectures, practicals and/or clinical duties were attended and a year/semester mark of at least 50% was obtained in the repeat year.
- vi. The semester/year mark and examination mark contributes 50% each towards the final mark for all modules with examinations.
- vii. A student is required to obtain a minimum semester/year mark of 40%, a minimum of 40% in the examination as well as a final mark of at least 50% to pass a module. A subminimum of 40% in subdivisions of theoretical and/or practical examinations may be required as stipulated by the Dean in consultation with the head of department concerned, and as set out in the study guide.
- viii. The content, format and duration of the supplementary, extraordinary, and/or special examination will be similar to that of the examination, except for oral examinations, where the supplementary, extraordinary, and/or special examination may be in a different format.
- ix. Semester tests and examinations are conducted as stipulated in the Faculty Calendar.
- x. A student applies for admission to an extraordinary assessment using the Faculty's relevant standard operating procedure which is managed by student administration.

### **Exclusion**

- xi. A student who is not permitted to re-register in terms of UP General Academic Regulation G3.2 a) and b) is automatically excluded at the end of the academic year.
- xii. A student who fails a particular year of study for the second time is automatically excluded.

### **Re-admission and dismissal**

- xiii. A student who has been excluded may apply online by the specified deadline to the Faculty Appeals Committee for consideration for re-admission, failing which the student is dismissed.
- xiv. The Faculty Appeals Committee has discretion to either readmit an excluded student, or to deny the appeal, in which case the student is dismissed.

## **Practical/clinical/internship information**

### **Clinical experience (including practical work)**

Proof of satisfactory completion of prescribed clinical and practical components of the programme as prescribed in the relevant study guide(s) must be submitted to the relevant Head of Department : prior to the commencement of the examinations. Failure to do so may lead to examination refusal.



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## Pass with distinction

The BVSc degree is conferred with distinction on a student who has obtained a cumulative weighted average (not rounded) of at least 75% over the last three years of study. The cumulative weighted average is calculated as the average score of the weighted averages per year of the last 3 academic years as indicated on a student's academic record.

## General information

### ***University of Pretoria Programme Qualification Mix (PQM) verification project***

*The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.*



## Curriculum: Year 1

Minimum credits: 122

### Fundamental modules

#### Academic information management 111 (AIM 111)

**Module credits** 4.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Economic and Management Sciences  
Faculty of Humanities  
Faculty of Law  
Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences  
Faculty of Theology and Religion

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Information Science

**Period of presentation** Semester 1

#### Module content

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology.

#### Academic information management 121 (AIM 121)

**Module credits** 4.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Economic and Management Sciences  
Faculty of Humanities  
Faculty of Law  
Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences  
Faculty of Theology and Religion  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Informatics



**Period of presentation** Semester 2

### Module content

Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

## Language and study skills 110 (LST 110)

**Module credits** 6.00

**NQF Level** 05

**Service modules** Faculty of Natural and Agricultural Sciences  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Unit for Academic Literacy

**Period of presentation** Semester 1

### Module content

The module aims to equip students with the ability to cope with the reading and writing demands of scientific disciplines.

## Academic orientation 108 (UPO 108)

**Module credits** 0.00

**NQF Level** 00

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Veterinary Science Deans Office

**Period of presentation** Year

## Core modules

### Biometry 120 (BME 120)

**Module credits** 16.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Natural and Agricultural Sciences  
Faculty of Veterinary Science

**Prerequisites** At least 4 (50-59%) in Mathematics in the Grade 12 examination, or at least 50% in both Statistics 113, 123

**Contact time** 1 practical per week, 4 lectures per week



**Language of tuition** Module is presented in English

**Department** Statistics

**Period of presentation** Semester 2

### Module content

Simple statistical analysis: Data collection and analysis: Samples, tabulation, graphical representation, describing location, spread and skewness. Introductory probability and distribution theory. Sampling distributions and the central limit theorem. Statistical inference: Basic principles, estimation and testing in the one- and two-sample cases (parametric and non-parametric). Introduction to experimental design. One- and two-way designs, randomised blocks. Multiple statistical analysis: Bivariate data sets: Curve fitting (linear and non-linear), growth curves. Statistical inference in the simple regression case. Categorical analysis: Testing goodness of fit and contingency tables. Multiple regression and correlation: Fitting and testing of models. Residual analysis. Computer literacy: Use of computer packages in data analysis and report writing.

## Chemistry 151 (CMY 151)

**Module credits** 16.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences  
Faculty of Veterinary Science

**Prerequisites** A candidate must have Mathematics for at least 60% and 60% for Physical Sciences.

**Contact time** 1 practical per week, 4 lectures per week

**Language of tuition** Module is presented in English

**Department** Chemistry

**Period of presentation** Semester 1

### Module content

Theory: Introduction to general chemistry: Measurement in chemistry, matter and energy, atomic theory and the periodic table, chemical compounds and chemical bonds; quantitative relationships in chemical reactions, states of matter and the kinetic theory; solutions and colloids, acids, bases and ionic compounds, chemical equilibria. Introduction to organic chemistry: Chemical bonding in organic compounds, nature, physical properties and nomenclature of simple organic molecules, isomerism, chemical properties of alkanes and cycloalkanes, alkenes, alcohols, aldehydes and ketones, carboxylic acids and esters, amines and amides, carbohydrates, proteins, and lipids. Practicals.

## Introductory genetics 161 (GTS 161)

**Module credits** 8.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Veterinary Science



<b>Prerequisites</b>	MLB 111 GS
<b>Contact time</b>	2 lectures per week, fortnightly tutorials
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biochemistry, Genetics and Microbiology
<b>Period of presentation</b>	Semester 2

### Module content

Chromosomes and cell division. Principles of Mendelian inheritance: locus and alleles, dominance interactions, extensions and modifications of basic principles.. Probability studies. Sex determination and sex linked traits. Pedigree analysis. Genetic linkage and chromosome mapping. Chromosome variation.

## Molecular and cell biology 111 (MLB 111)

<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	A candidate who has passed Mathematics with at least 60% in the Grade 12 examination
<b>Contact time</b>	1 practical/tutorial per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biochemistry, Genetics and Microbiology
<b>Period of presentation</b>	Semester 1

### Module content

Introduction to the molecular structure and function of the cell. Basic chemistry of the cell. Structure and composition of prokaryotic and eukaryotic cells. Ultrastructure and function of cellular organelles, membranes and the cytoskeleton. General principles of energy, enzymes and cell metabolism. Selected processes, e.g. glycolysis, respiration and/or photosynthesis. Introduction to molecular genetics: DNA structure and replication, transcription, translation. Cell growth and cell division.

## Medical terminology 180 (MTL 180)

<b>Module credits</b>	8.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Health Sciences Faculty of Natural and Agricultural Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week





<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Ancient and Modern Languages and Cultures
<b>Period of presentation</b>	Semester 1

### Module content

The acquisition of a basic medical orientated vocabulary compiled from Latin and Greek stem forms combined with prefixes and suffixes derived from those languages. The manner in which the meanings of medical terms can be determined by analysing the terms into their recognisable meaningful constituent parts, is taught and exercised. The functional use of medical terms in context as practical outcome of terminological application is continually attended to.

## Physics for biology students 131 (PHY 131)

<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	A candidate must have passed Mathematics with at least 60% in the Grade 12 examination
<b>Contact time</b>	1 discussion class per week, 1 practical per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Physics
<b>Period of presentation</b>	Semester 1

### Module content

Note: PHY 131 is aimed at students who will not continue with physics. PHY 131 cannot be used as a substitute for PHY 114.

Units, vectors, one dimensional kinematics, dynamics, work, equilibrium, sound, liquids, heat, thermodynamic processes, electric potential and capacitance, direct current and alternating current, optics, modern physics, radioactivity.

## Veterinary professional life 101 (VPL 101)

<b>Module credits</b>	4.00
<b>NQF Level</b>	05
<b>Prerequisites</b>	Admission into relevant programme.
<b>Contact time</b>	2 lectures every fortnight
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year



## Module content

The five-year programme on veterinary professional life contributes to the development of life skills to enable veterinarians to be consummate professionals capable of dealing with the diverse challenges of professional and everyday life. The VPL 101 module provides an introduction to human-animal relationships in general and animal ethics and welfare in particular. Aspects of communication, leadership, business skills and transformation are introduced. Community-based learning involves excursions where students are exposed to some of the practical and clinical aspects of veterinary science.

## Mathematics 165 (WTW 165)

**Module credits** 16.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Economic and Management Sciences  
Faculty of Veterinary Science

**Prerequisites** 50% for Mathematics in Grade 12 and MGW 112# or registered for BVSc

**Contact time** 1 tutorial per week, 4 lectures per week

**Language of tuition** Module is presented in English

**Department** Mathematics and Applied Mathematics

**Period of presentation** Semester 2

## Module content

\*Students will not be credited for more than one of the following modules for their degree: WTW 134, WTW 165, WTW 114, WTW 158. WTW 165 does not lead to Mathematics at 200 level and is intended for students who require Mathematics at 100 level only. WTW 165 is offered in English in the second semester only to students who have applied in the first semester of the current year for the approximately 65 MBChB, or the 5-6 BChD places becoming available in the second semester and who were therefore enrolled for MGW 112 in the first semester of the current year.

Functions, derivatives, interpretation of the derivative, rules of differentiation, applications of differentiation, integration, interpretation of the definite integral, applications of integration, matrices, solutions of systems of equations. All topics are studied in the context of applications.

## Animal diversity 161 (ZEN 161)

**Module credits** 8.00

**NQF Level** 05

**Service modules** Faculty of Education  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week, fortnightly practicals

**Language of tuition** Module is presented in English

**Department** Zoology and Entomology



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**Period of presentation** Semester 2

**Module content**

Animal classification, phylogeny organisation and terminology. Evolution of the various animal phyla, morphological characteristics and life cycles of parasitic and non-parasitic animals. Structure and function of reproductive, respiratory, excretory, circulatory and digestive systems in various animal phyla. In-class discussion will address the sustainable development goals #3, 12, 13, 14 and 15 (Good Health and Well-being, Responsible Consumption and Production, Climate Action, Life Below Water, Life on Land).



## Curriculum: Year 2

**Minimum credits: 128**

\*\* VPL 122 is not included when calculating credits: this is the online version of VPL 101 only applicable to students admitted to the BVSc programme in the second year.

### Core modules

#### Animal production systems and principles of breeding 200 (VAP 200)

<b>Module credits</b>	8.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	Second year academic level and admission to relevant programme.
<b>Contact time</b>	3 lectures per week over 22 weeks, 6 hours of practicals per year
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Year

#### Module content

Introduction to the role and concepts of animal production systems in the South African food production economy. Evolution, domestication and breed development. Animal recording, trait classification and the concept of functional efficiency. Qualitative and quantitative breeding principles with specific reference to selection of farm animal species. Principles of communal farming systems in Southern Africa. Principles requirements and production indices for extensive, semi-intensive and intensive animal production systems with reference to dairy, beef, mutton, wool, mohair, poultry meat, egg, pork, venison and fish production. Game management systems with reference to conservation and game farming. The role of the human in livestock production systems and sustainable production. The module contains practical sessions in farm animal management on a rotational basis including after-hours, weekends, public holidays and university recess. Concepts covered in class are applied in practice through community-based learning by visiting relevant farms and/or facilities and engaging with farmers and stakeholders.

#### Veterinary comparative anatomy 201 (VCA 201)

<b>Module credits</b>	28.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	Second year academic level and admission to relevant programme.
<b>Contact time</b>	21 dissection practicals per week over 3 weeks S1, 21 dissection practicals per week over 3 weeks S2, 6 lectures per week over 3 weeks S1, 6 lectures per week over 3 weeks S2
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Anatomy and Physiology
<b>Period of presentation</b>	Year



### Module content

Anatomical terminology, early embryonic development, central and autonomic nervous systems, cutaneous appendages and musculature, head, thoracic limb, trunk, pelvis and pelvic limb anatomy of the canine with clinically relevant comparisons to the feline, equine, bovine, ovine and porcine, as well as some wildlife species. Basic avian anatomy.

### Veterinary microbiology 210 (VEM 210)

**Module credits** 6.00

**NQF Level** 06

**Prerequisites** Second year academic level and admission to relevant programme.

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Veterinary Tropical Diseases

**Period of presentation** Semester 1

### Module content

General introduction to microbiology. Introduction to bacteria, fungi and viruses. Pathogenesis of infection by bacteria, fungi and viruses. Normal flora of selected organ systems in domestic animals. Principles of laboratory diagnosis of infectious diseases.

### Veterinary ethology 202 (VET 202)

**Module credits** 18.00

**NQF Level** 06

**Service modules** Faculty of Natural and Agricultural Sciences

**Prerequisites** Second year academic level and admission to relevant programme.

**Contact time** 20 practicals, 5 lectures per week for 20 weeks

**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Year

### Module content

The husbandry of and common procedures performed on key domestic species, behavioral principles of key domestic species, handling skills for key domestic animals, aspects of animal welfare.

### Veterinary immunology 220 (VIM 220)

**Module credits** 6.00

**NQF Level** 06

**Prerequisites** Second year academic level and admission to relevant programme.

**Contact time** 1 seminar, 33 Lectures



**Language of tuition** Module is presented in English

**Department** Veterinary Tropical Diseases

**Period of presentation** Semester 2

### Module content

Overview of the immune system, structure of antibodies, biosynthesis of immunoglobulins, antigen-receptor interaction, complement, humoral immune response, cellular immune response, selected immunodiagnostic techniques, vaccinology, basic principles of immunity to infectious and parasitic diseases.

## Principles of animal nutrition 224 (VKU 224)

**Module credits** 12.00

**NQF Level** 06

**Prerequisites** Second year academic level and admission to relevant programme.

**Contact time** 6 lectures per week over 10 weeks

**Language of tuition** Module is presented in English

**Department** Animal Science

**Period of presentation** Semester 2

### Module content

Introduction to animal nutrition with the focus on feed intake, digestibility and metabolism of feeds in both monogastric and ruminant animals. Classification of feedstuffs and the nutritive value in the diet for the different farm animal species. An introduction to applied nutrition and feeding of monogastric and ruminant animals, equine and companion animals.

## Veterinary physiology and histology 200 (VPH 200)

**Module credits** 33.00

**NQF Level** 06

**Prerequisites** 1st year Physics and Chemistry. Second year academic level and admission to relevant programme.

**Contact time** 6 practicals per week for 10 weeks, 9 lectures per week for 21 weeks

**Language of tuition** Module is presented in English

**Department** Anatomy and Physiology

**Period of presentation** Year

### Module content

The light microscope, structure and function of cells and tissues, the endocrine system, the nervous system, the integument, muscle structure and function, haematology, the cardiovascular system, the respiratory system, metabolic pathways and the digestive system, the urinary system, the reproductive system, basic avian physiology and thermoregulation.



## Veterinary professional life 122 (VPL 122)

<b>Module credits</b>	4.00
<b>NQF Level</b>	05
<b>Prerequisites</b>	Second year academic level and admission to relevant programme
<b>Contact time</b>	Web-based learning
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Semester 1

### Module content

The VPL 122 module provides students that enter the BVSc programme from the second year an opportunity to cover the content presented in VPL101 online.

The five-year programme on veterinary professional life contributes to the development of life skills to enable veterinarians to be consummate professionals capable of dealing with the diverse challenges of professional and everyday life. The VPL 122 module provides an introduction to human-animal relationships in general and animal ethics and welfare in particular. Students are exposed to diversity in the veterinary profession and the concepts of difference, bias and stereotyping. Professional communication and mental wellness skills are introduced. Community-based learning involves excursions where students are exposed to some of the practical and clinical aspects of veterinary science

## Veterinary professional life 201 (VPL 201)

<b>Module credits</b>	5.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	VPL 101, or simultaneous registration for VPL 122. Second year academic level and admission to relevant programme
<b>Contact time</b>	18 lectures, 20 discussions
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

### Module content

This module focuses on developing a range of life skills, including professional identity, personal wellness, self-awareness, group work and communication skills, including social media communication. The topics of cultural diversity and transformation are utilised to gain a deeper understanding of the wide range of people with whom veterinarians interact professionally. Personal financial fitness skills are developed as an introduction to later studies in practice management skills. Community-based learning involves an excursion that provides experiential life skills learning.

## Pasture science 213 (WDE 213)

<b>Module credits</b>	12.00
<b>NQF Level</b>	06



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<b>Service modules</b>	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	Second year academic level and admission to relevant programme
<b>Contact time</b>	2 blocks with a total of 60 lectures
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Department of Plant and Soil Sciences
<b>Period of presentation</b>	Semester 1

### **Module content**

Basic principles of pasture science: the influence of biotic and abiotic factors on the productivity of different strata and components of natural and planted pastures. This will enable the student to understand the management, production, appropriate and optimal utilisation as well as the conservation of these pastures. These principles can be used to ensure sustainable animal production and health.

One large assignment to be completed during recess in addition to lecture time.





## Curriculum: Year 3

Minimum credits: 128

### Core modules

#### General surgery 310 (GNS 310)

<b>Module credits</b>	7.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Admission into relevant programme and Third year academic level.
<b>Contact time</b>	2 lectures per week over 14 weeks, 3 practicals per week over 4 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 1

#### Module content

General principles of surgery, applicable to all species. Principles of surgical asepsis, disinfection and sterilisation, suture materials and patterns, surgical haemostasis, traumatology, wound healing, wound infection, wound management, small animal bandages and surgical instrumentation.

#### General and organ pathology 300 (GOP 300)

<b>Module credits</b>	30.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Third year academic level and admission to relevant programme.
<b>Contact time</b>	2 discussion classes per week over 25 weeks, 6 demonstration sessions of 40 minutes, 6 lectures per week 25 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Paraclinical Sciences
<b>Period of presentation</b>	Year

#### Module content

Definitions and common causes of basic lesions in tissues and organs. Pathogenesis of basic lesions including, reversible cell injury, pigmentations, necrosis, apoptosis, circulatory disturbances, inflammation, immunopathology, growth disturbances and neoplasia. Organ pathology (with the emphasis on macroscopic changes and pathogenesis) of selected conditions of the various organ systems of the body.

#### Introductory veterinary diagnostics 300 (IVD 300)

<b>Module credits</b>	20.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Third year academic level and admission to relevant programme.
<b>Contact time</b>	3 lectures per week, 6 practicals per semester



**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Year

### Module content

The module introduces the student to clinical diagnostics in the normal animal patient, and evidence-based approaches of veterinary science. It consists of 3 integrated content components being the diagnostic focus, the clinical physiology focus and the research focus. The evidence-based approach acts as the integration of the clinical physiology and research focus areas, and is presented using group assignments where students have to critically appraise and interpret research papers using their knowledge of normal and abnormal physiological processes or clinical findings.

## Veterinary toxicology 300 (TOX 300)

**Module credits** 14.00

**NQF Level** 07

**Prerequisites** Admission into relevant programme and Third year academic level.

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Paraclinical Sciences

**Period of presentation** Year

### Module content

General principles of veterinary toxicology, with emphasis on the relevant factors and circumstances contributing to poisoning; advanced toxicology with regard to inorganic and organic compounds, fungi, cyanobacteria, plants, rodenticides, zootoxins, etc. Plant poisonings, mycotoxicoses and inorganic and organic poisonings are discussed under the following headings: epidemiology and species affected, description, identification, distribution and poisonous principle (if applicable), mechanism of action, toxicity, clinical signs, pathology (limited to the most important lesions); diagnosis, differential diagnosis, treatment and control of prevention. A pressed plant collection or a poisonous plant collection in digital format has to be submitted.

## Veterinary infectious diseases 300 (VIP 300)

**Module credits** 14.00

**NQF Level** 07

**Prerequisites** Third year academic level and admission to relevant programme.

**Contact time** 3 lectures per week over 28 weeks

**Language of tuition** Module is presented in English

**Department** Veterinary Tropical Diseases

**Period of presentation** Year



## Module content

Veterinary infectious diseases is a module aimed at providing the student with in-depth knowledge of all aspects of diseases of food-producing and companion animals caused by viruses, bacteria, fungi and prions. The module is structured to enable students to discern which infectious diseases of animals are high impact diseases and which are of lesser significance in order of importance. The module covers the morphological and physico-chemical characteristics of the causative organisms and the epidemiology and pathogenesis of the diseases caused by them. Course candidates will also learn how to diagnose these diseases in both the living and dead animal, and the control strategies applicable, including control at the livestock/wildlife/human interface. Finally, course candidates will learn about the socio-economic importance of infectious diseases of animals with special reference to transboundary spread.

## Ethnoveterinary medicine 310 (VME 310)

<b>Module credits</b>	3.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Third year academic level and admission to relevant programme.
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Paraclinical Sciences
<b>Period of presentation</b>	Semester 1

## Module content

Principles of ethnoveterinary knowledge comprising indigenous, plant-based approaches to animal health and wellbeing; association of plant secondary metabolites with biological activity and toxicity; interaction of ethnoveterinary medicine with orthodox veterinary care; community benefits of ethnoveterinary medicine.

## General veterinary pharmacology 300 (VPH 300)

<b>Module credits</b>	14.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Third year academic level and admission to relevant programme.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Paraclinical Sciences
<b>Period of presentation</b>	Year

## Module content

General principles of pharmaceuticals, pharmacokinetics, pharmacodynamics and pharmacotherapeutics. Regulatory control of veterinary medicines and dispensing requirements. A study of groups of functional, systemic and chemotherapeutic drugs utilised in general veterinary practice with emphasis on their pharmacological effects, general indication, safety and side effects.



## Veterinary professional life 301 (VPL 301)

<b>Module credits</b>	6.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	VPL 201. Third year academic level and admission to relevant programme
<b>Contact time</b>	14 other contact sessions, 28 discussions, 28 lectures
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

### Module content

This module focuses on community engagement veterinary communication skills and gender-based violence. The One Health, One Welfare concept is applied practically in the context of a community engagement activity. Business management skills are further developed through an introduction to marketing within the context of the veterinary practice and the community setting. The skills learnt in this and previous modules are applied practically in a group assignment involving a community based activity.

## Veterinary parasitology 300 (VTP 300)

<b>Module credits</b>	20.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	Third year academic level and admission to relevant programme.
<b>Contact time</b>	1 practical per week over 30 weeks, 4 lectures per week over 30 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

### Module content

The objective of the module is to provide fundamentals of applied veterinary helminthology, ectoparasitology and protozoology as required by veterinarians. The module covers the life cycles, relevant morphological features, epidemiology and pathogenesis of important parasites of domestic animals. Candidates will also learn how to diagnose infections/infestations and diseases in life and dead animals as well as how to treat and control them. Where applicable, emphasis is also given on zoonotic implications.



## Curriculum: Year 4

Minimum credits: 134

### Core modules

#### Anaesthesiology 420 (ANV 420)

<b>Module credits</b>	7.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	3 lectures per week for 14 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 2

#### Module content

Prepare for safe general anaesthesia; premedication; trachea intubation; induction and maintenance of intravenous and inhalation anaesthesia; recovery from anaesthesia; local anaesthesia and pain management; anaesthetic complications.

#### Clinical pathology 410 (CLP 410)

<b>Module credits</b>	7.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 practical per week for 2 weeks, 3 lectures per week over 14 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 1

#### Module content

Diagnosis and treatment of anaemia, polycythaemia, leukocyte kinetics, lymphohaemopoietic neoplasia; diagnosis and treatment of haemostatic abnormalities; diagnostic use of serum biochemistry, faecal and blood tests, urinalysis; cytology.

#### Diagnostic imaging 400 (DIM 400)

<b>Module credits</b>	14.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 practical per week for 6 weeks, 2.5 lectures per week for 28
<b>Language of tuition</b>	Module is presented in English



**Department** Companion Animal Clinical Studies

**Period of presentation** Year

**Module content**

Principles of diagnostic imaging; diagnostic imaging of the abdomen, thorax, head, appendicular system and the vertebral column in dogs and cats; diagnostic imaging of the appendicular system in horses and production animals.

**Diagnostic pathology 401 (DPT 401)**

**Module credits** 12.00

**NQF Level** 08

**Prerequisites** Fourth year academic level and admission to relevant programme.

**Contact time** 2 lectures per week over 28 weeks, 21 practicals

**Language of tuition** Module is presented in English

**Department** Paraclinical Sciences

**Period of presentation** Year

**Module content**

Planning and conducting necropsies; diagnostic approach to fatal conditions and diseases of dogs, cats and horses.

**Veterinary epidemiology 420 (EPL 420)**

**Module credits** 10.00

**NQF Level** 08

**Prerequisites** Fourth year academic level and admission to relevant programme.

**Contact time** 1 discussion for 6 weeks, 1 practical session for 4 weeks, 2 lectures for 10 weeks

**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Semester 2

**Module content**

Topics presented within an evidence-based medicine and clinical decision-making framework: basic concepts of epidemiology and disease transmission, measures of disease in populations, precision and bias, causal inference, measures of association, epidemiological study design, sampling methods, disease outbreak investigation and principles of diagnostic tests.

**Equine medicine and surgery 400 (EQM 400)**

**Module credits** 19.00

**NQF Level** 08

**Prerequisites** All the modules of the first, second and third years of the BVSc programme.



<b>Contact time</b>	1 practical per week (5 weeks), 4 lectures per week for 28 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Year

#### Module content

Lameness: disorders of the front and hind limb; disorders of the spine; fractures and emergencies; muscular disorders; insurance examinations; identification, diagnosis and treatment of important cardiovascular, gastrointestinal, nervous system, urinary, skin, multi-systemic and respiratory disorders/diseases; hydration status and correction of fluid imbalances; the equine neonate: clinical examination, diagnostic tests and selected disorders. The module includes practical skills training.

### Small animal medicine and surgery 410 (SAS 410)

<b>Module credits</b>	21.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 practical per week for 2 weeks, 9 lectures per week for 14 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 1

#### Module content

Patient assessment; therapeutic and monitoring plans for selected key critical situations; identification, diagnosis and treatment of important cardiovascular, respiratory, kidney, skin, endocrine and eye conditions/diseases; multi-systemic conditions; dentistry; oncology; behaviour-related disorders and treatment, critical care and traumatology in dogs and cats.

### Small animal medicine and surgery 420 (SAS 420)

<b>Module credits</b>	23.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 interactive case study per week for 14 weeks, 1 practical per week for 2 weeks, 9 lectures per week for 14 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 2



## Module content

Patient assessment; therapeutic and monitoring plans for selected key critical situations; identification, diagnosis and treatment of important gastrointestinal, liver, pancreas, peritoneal, urogenital, skin, musculoskeletal, nervous system; dentistry in dogs and cats. Further development of clinical reasoning skills through interactive case studies.

## Veterinary professional life 401 (VPL 401)

<b>Module credits</b>	7.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	VPL 301. Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 discussion class per week over 9 weeks, 1 lecture per week over 7 weeks, 9 other contact sessions for 1 week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

## Module content

Case studies are utilised to introduce students to veterinary law and ethics, regulatory veterinary medicine, veterinary policy, professional associations, the veterinary team and collegiality. Personal and professional wellness is addressed within these contexts by exploring common mental health challenges. Veterinary communication skills are further developed, including conflict management and negotiation skills. The integration of clinical and communication skills is introduced.

## Veterinary reproduction 400 (VRP 400)

<b>Module credits</b>	14.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fourth year academic level and admission to relevant programme.
<b>Contact time</b>	1 practical per week for 20 weeks, 3 lectures per week over 26 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Year

## Module content

The female reproductive cycle; parturition and puerperium; control of reproduction; identification, diagnosis and treatment of important diseases or malfunctions of the female reproductive system; identification, diagnosis and treatment of conditions of the neonate; male reproductive processes; identification, diagnosis and treatment of important diseases or malfunctions of the male reproductive system; venereal diseases in domestic animals; optimisation of breeding; investigation of infertility. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical skills.





## Curriculum: Year 5

Minimum credits: 161

### Core modules

#### Diagnostic pathology 511 (DPT 511)

<b>Module credits</b>	12.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fifth year academic level and admission to relevant programme
<b>Contact time</b>	14 practicals, 28 lectures
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Paraclinical Sciences
<b>Period of presentation</b>	Semester 1

#### Module content

Planning and conducting necropsies; diagnostic approach to fatal conditions and diseases of pigs, poultry, small stock, cattle and selected wildlife species.

#### Porcine health and production 510 (PHP 510)

<b>Module credits</b>	5.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fifth year academic level and admission to relevant programme
<b>Contact time</b>	3 lectures per week for 7 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Semester 1

#### Module content

The pig industry; breeding and husbandry; nutrition and related disorders; important diseases; biosecurity; miscellaneous conditions.

#### Poultry health and production 510 (PLY 510)

<b>Module credits</b>	5.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fifth year academic level and admission to relevant programme
<b>Contact time</b>	3 lectures per week for 7 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies



**Period of presentation** Semester 1

**Module content**

The poultry industry; breeding and husbandry; nutrition and related disorders; important diseases; biosecurity; miscellaneous conditions; zoonosis.

**Ruminant medicine and surgery 510 (RUM 510)**

**Module credits** 24.00

**NQF Level** 08

**Prerequisites** Fifth year academic level and admission to relevant programme

**Contact time** 1 practical for 5 weeks, 7 lectures per week for 16 weeks

**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Semester 1

**Module content**

An integrated course that covers clinical and other aspects of diseases, conditions and syndromes of ruminants (cattle and small stock) organised in an organ system approach. The module includes an action learning project that requires attendance after hours, during weekends, public holidays and university recess.

**Ruminant production medicine and herd health 511 (RUM 511)**

**Module credits** 16.00

**NQF Level** 08

**Prerequisites** Admission into relevant programme and Fifth year academic level.

**Contact time** 4 practicals per week for 1 week, 5 lectures per week for 14 weeks

**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Semester 1

**Module content**

Theoretical training in the herd or flock approach to health and production management of small scale ruminant systems, commercial dairy, beef, wool, mutton and mohair production systems, emphasising monitoring, prevention, outbreak management, technology and economics. Concepts covered in class are applied in practice through community-based learning by visiting cattle, sheep and/or goat farms and engaging with farmers.

**Veterinary core practice 520 (VCP 520)**

**Module credits** 52.00

**NQF Level** 08

**Prerequisites** Fifth year academic level and admission to relevant programme

**Contact time** 40 hours per week over 13 weeks, Yes



**Language of tuition** Module is presented in English

**Department** Companion Animal Clinical Studies

**Period of presentation** Semester 2

### Module content

Practical application of the theoretical aspects of small animal, production animal, equine and state veterinary practice covered in the core curriculum of the BVSc programme. Topics include medicine, surgery, reproduction, diagnostic imaging, pathology and clinical pathology, ophthalmology, dentistry and anaesthesiology of cats, dogs, cattle, small stock and horses, herd/flock health, epidemiology, economics, drug regulations, certification, animal health- and import/export regulations, veterinary public health, veterinary business management and veterinary professional life skills. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical skills. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

## Veterinary elective practice 520 (VEP 520)

**Module credits** 8.00

**NQF Level** 08

**Prerequisites** Fifth year academic level and admission to relevant programme

**Contact time** 40 hours per week over 4 weeks, Yes

**Language of tuition** Module is presented in English

**Department** Production Animal Studies

**Period of presentation** Semester 2

### Module content

The purpose of this module is to give students additional exposure in a practice area of interest. The aim is to provide the graduate with theoretical and practical exposure to strengthen Day 1 competencies in those components of veterinary science needed for him/her to enter the particular career path with confidence. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical and life skills. The scope of the module is expansion, integration and practical application of knowledge established through the core component of the BVSc programme. Students will complete one of the following six practice areas: Small Animal and Exotic Practice, Rural and Wildlife Practice, Veterinary Public Health and State Veterinary Practice, Equine Practice, Intensive Animal Production Practice, and Veterinary Research Career.

## One health 510 (VOH 510)

**Module credits** 4.00

**NQF Level** 08

**Prerequisites** Fifth year academic level and admission to relevant programme

**Contact time** 2 lectures per week over 14 weeks

**Language of tuition** Module is presented in English

**Department** Veterinary Tropical Diseases



**Period of presentation** Semester 1

**Module content**

Introduction to the One Health concept; emerging and endemic infectious diseases at human/animal interfaces; veterinary issues at human/wildlife interfaces in southern Africa; One Health approaches at human/animal/ecosystem interfaces; animal health, conservation and rural development at interfaces in southern Africa; communication and collaboration between multiple disciplines.

**Veterinary public health 510 (VPH 510)**

**Module credits** 14.00

**NQF Level** 08

**Prerequisites** Fifth year academic level and admission to relevant programme

**Contact time** 6 lectures per week

**Language of tuition** Module is presented in English

**Department** Paraclinical Sciences

**Period of presentation** Semester 1

**Module content**

The role of the veterinary surgeon in veterinary public health. Veterinary food hygiene and nutrition-related diseases of importance regarding food of animal origin. Meat and milk hygiene; all necessary measures, including legislation, to ensure that food of animal origin is safe, sound and wholesome at all stages of production and manufacture, up to the consumer. Veterinary aspects of environmental health. Zoonosis in veterinary science. Introduction of the use of laboratory animals in biomedical research and relevant aspects relating to animal welfare. Introduction to the social aspects of the human-animal interaction by protecting and promoting human health in communities, veterinary extension and risk communication.

**Veterinary professional life 511 (VPL 511)**

**Module credits** 8.00

**NQF Level** 08

**Prerequisites** VPL 401.

**Contact time** 3 lectures per week over 14 weeks, 9 other contact sessions for 1 week

**Language of tuition** Module is presented in English

**Department** Veterinary Tropical Diseases

**Period of presentation** Semester 1

**Module content**

This module deals with business management, including the development of a business plan, basic financial, stock, human resources and client management, as well as marketing, promotion, sales and legislation relevant to business management. Workplace ethics and social entrepreneurship are introduced. Wellness, communication and leadership skills are explored within the context of the workplace and the global environment.



## Veterinary research report 520 (VRE 520)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fifth year academic level and admission to relevant programme.
<b>Contact time</b>	2 lectures per week, 2 weeks of research
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

### Module content

The module provides students with the opportunity to integrate and apply research skills relevant to veterinary science such as literature evaluation, experimental design, data handling, evidence-based veterinary medicine and scientific communication in the form of a structured research report. Supervision is shared amongst all academic staff members of the Faculty of Veterinary Science.

## African wildlife management and conservation 510 (WMC 510)

<b>Module credits</b>	5.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Fifth year academic level and admission to relevant programme.
<b>Contact time</b>	10 discussion classes, 20 lectures
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Semester 1

### Module content

Wildlife management; principles of capture; selected viral, bacterial, protozoal, ecto- and endoparasitic and nutritional diseases of wildlife; legislation pertaining to wildlife; conservation of iconic species of wildlife.



## Curriculum: Final year

Minimum credits: 160

### Core modules

#### Veterinary core practice 610 (VCP 610)

<b>Module credits</b>	52.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	VCP 520. Final year academic level and admission to relevant programme.
<b>Contact time</b>	40 hours per week over 13 weeks, Yes
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 1

#### Module content

Practical application of the theoretical aspects of small animal, production animal, equine and state veterinary practice covered in the core curriculum of the BVSc programme. Topics include medicine, surgery, reproduction, diagnostic imaging, pathology and clinical pathology, ophthalmology, dentistry and anaesthesiology of cats, dogs, cattle, small stock and horses, herd/flock health, epidemiology, economics, drug regulations, certification, animal health- and import/export regulations, veterinary public health, veterinary business management and veterinary professional life skills. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical skills. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

#### Veterinary core practice 620 (VCP 620)

<b>Module credits</b>	52.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	VCP 610. Final year academic level and admission to relevant programme.
<b>Contact time</b>	40 hours per week over 13 weeks, Yes
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Companion Animal Clinical Studies
<b>Period of presentation</b>	Semester 2



## Module content

Practical application of the theoretical aspects of small animal, production animal, equine and state veterinary practice covered in the core curriculum of the BVSc programme. Topics include medicine, surgery, reproduction, diagnostic imaging, pathology and clinical pathology, ophthalmology, dentistry and anaesthesiology of cats, dogs, cattle, small stock and horses, herd/flock health, epidemiology, economics, drug regulations, certification, animal health- and import/export regulations, veterinary public health, veterinary business management and veterinary professional life skills. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical and life skills. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

## Veterinary elective practice 610 (VEP 610)

<b>Module credits</b>	24.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	VEP 520. Final year academic level and admission to relevant programme.
<b>Contact time</b>	40 hours per week over 5 weeks, Yes
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Semester 1

## Module content

The purpose of this module is to give students additional exposure in a practice area of interest. The aim is to provide the graduate with theoretical and practical exposure to strengthen Day 1 competencies in those components of veterinary science needed for him/her to enter the particular career path with confidence. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical and life skills. The scope of the module is expansion, integration and practical application of knowledge established through the core component of the BVSc programme. Students will complete one of the following six practice areas: Small Animal and Exotic Practice, Rural and Wildlife Practice, Veterinary Public Health and State Veterinary Practice, Equine Practice, Intensive Animal Production Practice, and Veterinary Research Career.

## Veterinary elective practice 620 (VEP 620)

<b>Module credits</b>	16.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	VEP 610. Final year academic level and admission to relevant programme.
<b>Contact time</b>	40 hours per week over 4 weeks, Yes
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Production Animal Studies
<b>Period of presentation</b>	Semester 2



## Module content

The purpose of this module is to give students additional exposure in a practice area of interest. The aim is to provide the graduate with theoretical and practical exposure to strengthen Day 1 competencies in those components of veterinary science needed for him/her to enter the particular career path with confidence. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical and life skills. The scope of the module is expansion, integration and practical application of knowledge established through the core component of the BVSc programme. Students will complete one of the following six practice areas: Small Animal and Exotic Practice, Rural and Wildlife Practice, Veterinary Public Health and State Veterinary Practice, Equine Practice, Intensive Animal Production Practice, and Veterinary Research Career.

## Veterinary research report 600 (VRE 600)

<b>Module credits</b>	16.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Final year academic level and admission to relevant programme.
<b>Contact time</b>	3 contact sessions of 60 minutes, 5 weeks of guided self-study
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Year

## Module content

The module provides students with the opportunity to integrate and apply research skills relevant to veterinary science such as literature evaluation, experimental design, data handling, evidence-based veterinary medicine and scientific communication in the form of a structured research report. Supervision is shared amongst all academic staff members of the Faculty of Veterinary Science.

## General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

## Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.





### **University of Pretoria Programme Qualification Mix (PQM) verification project**

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.