Universiteit van Pretoria Jaarboek 2018

BVSc (08130005)

Minimum duur van studie	6 jaar
Totale krediete	948

Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

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 first admission 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.

Toelatingsvereistes

- Entry into the BVSc programme is highly competitive due to popularity of the programme and limited available spaces.
- Selection is based on merit. The Faculty does not determine specific selection cut-off values as these are determined by the strength of the applications in a particular year.
- **School-leavers**

  A valid NSC/IEB/Cambridge qualification with admission for degree purposes.

  Subject requirements and an Admission Point Score (APS) as indicated in the table below. The APS is calculated from the achievement levels obtained in the six 20-credit subjects of the NSC. Life Orientation is excluded when calculating the APS.

  Preliminary selection is based on Grade 11 results, and final selection on National Senior Certificate performance in Mathematics, English and Natural Sciences, as well as the Veterinary Value-added Form (VVAF). Additional selection criteria may be used including an interview and a portfolio of evidence, among other things.
- **Applicants with previous higher education exposure**

  There is an opportunity for students with previous higher education experience to also apply for the BVSc programme.

  Placement in either the first or second year of the BVSc programme will depend on, among others, merit and subject choices.
- **International students**

  A small number of international students may be admitted to the programme, including those from

neighbouring Southern African Development Community (SADC) countries. Once applicants have been accepted for this programme, they willreceive a letter of acceptance from the University, which will facilitate their application for a study permit. A valid study permit, obtained in the country of origin, is a prerequisite for registration.

The National Benchmark Test (NBT) may be required for international applicants.

- Life Orientation is excluded when calculating the APS.?

Minimum requirements												
Achievement level												
English				Mathematics				Physical Science				APS
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
5	3	C	C	5	3	C	C	5	3	C	C	32

Addisionele vereistes

Submission of the Veterinary Value Added Form is not a requirement, but is recommended in order to improve an applicant’s chance for selection, since the score obtained contributes 20% towards the final score used for selection.

Eksamens en slaagvereistes

These rules will only be applicable to modules that fall within the Faculty of Veterinary Science.

Also refer to UP General Regulations and Rules

i. Attencedance of all lectures, praticals and clinical duties is complusory. Any form of absence must be justified by submission of a meidcal certificate or vaild documentation, within three working days after returning. Failure to comply may lead to examination refusal.
ii. No minimum semester/year mark is required for admission to the examination.
iii. The semester/year marks and examination mark will count 50% each towards the final mark.
iv. A student is required to obtain a subminimum 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.
v. A student must pass all the modules of the respective previous year of study in order to be promoted to the subsequent year of study.
vi. A student who fails a module in year 1,2 or 3, has to repeat all the failed modules for that particular year of study.

A fourth, fifth or final year student who fails a module or modules in a year of study, has to repeat, all the modules for that particular year of study, except modules which were passed with a final mark of at least 65%, for which full exemption is granted.

During the repeat year, exemption from the examination is granted for a module that was passed in the previous year with a final mark of less than 65%; if at least 80% of the practical periods were attended and a year/semester mark of at least 50% was obtained.

Examinations are compulsory in all the modules previously failed, as well as in those modules in which exemption from the examination has not been obtained. If a student fails any of these examinations (or supplementary examination), he or she will be excluded from the programme and will not be permitted to

continue.

vii. The content, format and duration of the supplementary, extra-ordinary, and/or special examination will be similar to that of the examination, except for oral examinations, where the supplementary, extra-ordinary, and/or special examination may be in a different format.
viii. Students who have obtained a semester/year mark of 65% or more in a particular module may be promoted according to UP's general regulations. Departments will be allowed to use discretion in this regard. The rule will be stated in the study guide of the respected module.
ix. Examinations are conducted as stipulated in the Faculty Calendar.
x. A student will not be allowed to repeat the same year of study twice.

Exclusion
Students who have not passed the equivalent off at least 50% of semester modules enrolled for in a particular year of study, including dropped modules will be excluded and will not be allowed to re-register in the next year.

Re-admission
A student who has to discontinue his or her studies or has been excluded may apply in writing to the Faculty Admissions Committee for re-admission.

Praktiese/kliniese/internskapinligting

Compulsory Community Service
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, Forestry and Fisheries. More information can be obtained from DAFF.

Clinical experience (including practical work)
Proof of satisfactory completion of prescribed clinical and practical components of the programme as prescribed below must be submitted to the Head: Student Administration of the Faculty, prior to the commencement of the final examinations. Failure to do so may lead to examination refusal.

- In state control of stock diseases and administration: experience at an approved institution as approved by the Dean.
- Practical and clinical experience at the Faculty and at approved private practices as well as other institutions as approved by the Dean.

Slaag met lof

The BVSc degree is conferred with distinction on a student who has obtained a cumulative average of at least 75%.

Kurrikulum: Jaar 1

Minimum krediete: 124

Fundamentele modules

Akademiese inligtingsbestuur 102 (AIM 102)

Modulekrediete	6.00
Diensmodules	Fakulteit Opvoedkunde Fakulteit Ekonomiese en Bestuurswetenskappe Fakulteit Geesteswetenskappe Fakulteit Regsgeleerdheid Fakulteit Gesondheidswetenskappe Fakulteit Natuur- en Landbouwetenskappe Fakulteit Teologie en Religie Fakulteit Veeartsenykunde
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Departement	Inligtingkunde
Aanbiedingstydperk	Semester 2

Module-inhoud

Verkry, evalueer, verwerk, bestuur en bied inligtingsbronne vir akademiese doeleindes aan deur gebruik te maak van toepaslike tegnologie. Pas effektiewe soekstrategieë toe in verskillende tegnologiese omgewings. Demonstreer die etiese en regverdige gebruik van inligtingsbronne. Integreer 21ste-eeuse kommunikasie met die bestuur van akademiese inligting.

Language and study skills 110 (LST 110)

Modulekrediete	6.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe Fakulteit Veeartsenykunde
Voorvereistes	No prerequisites.
Kontaktyd	2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Eenheid vir Akademiese Geletterdheid
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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

Akademiese oriëntasie 108 (UPO 108)

Modulekrediete	0.00
Voorvereistes	Geen voorvereiste.
Onderrigtaal	Afrikaans en Engels word in een klas gebruik
Departement	Veeartsenykunde Dekaanskantoor
Aanbiedingstydperk	Jaar

Kernmodules

Biometrie 120 (BME 120)

Modulekrediete	16.00
Diensmodules	Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie Fakulteit Natuur- en Landbouwetenskappe Fakulteit Veeartsenykunde
Voorvereistes	Minstens 4 (50-59%) in Wiskunde in die graad 12-eksamen, of minstens 50% in beide Statistiek 113, 123
Kontaktyd	1 praktiese sessie per week, 4 lesings per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Departement	Statistiek
Aanbiedingstydperk	Semester 2

Module-inhoud

Enkelvoudige statistiese analise: Data-insameling en -verwerking, Steekproewe, tabellering, grafiese voorstelling, beskrywing van lokaliteit, spreiding en skeefheid. Inleidende waarskynlikheid en distribusieleer. Steekproefverdelings en die sentrale limietstelling. Statistiese inferensie: Basiese beginsels, beraming en toetsing in die een- en tweesteekproefgevalle (parametries en nie-parametries). Inleiding tot eksperimentele ontwerp. Een-en tweerigting ontwerpe, ewekansige blokontwerp. Meervoudige statistiese analise: Tweeveranderlike datastelle, krommepassing (lineêr en nie-lineêr), groeikrommes. Statistiese inferensie in die enkelvoudige regressieverband. Kategoriese data-analise: Pasgehaltetoetsing en gebeurlikheidstabelle. Meervoudige regressie en korrelasie: Passing en toetsing van modelle. Residu-ontleding. Rekenaarvaardigheid: Gebruik van rekenaarpakkette by dataverwerking en verslagskrywing.

Chemie 151 (CMY 151)

Modulekrediete	16.00
Diensmodules	Fakulteit Gesondheidswetenskappe Fakulteit Veeartsenykunde
Voorvereistes	'n Kandidaat moet Wiskunde en Fisiese Wetenskap me minste 60% geslaag het in die G12-eksamen.
Kontaktyd	4 lesings per week, 1 praktiese sessie per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans

Departement	Chemie
Aanbiedingstydperk	Semester 1

Module-inhoud

Teorie: Inleiding tot algemene chemie: Meting in chemie, materie en energie, atoomteorie en die periodieke tabel, chemiese verbindings en chemiese bindings, kwantitatiewe verwantskappe in chemiese reaksies, fases van materie en die kinetiese teorie, oplossings en kolloïde, sure, basisse en ioniese verbindings, chemiese ewewig. Inleiding tot organiese chemie: Chemiese binding in organiese verbindings, aard, fisiese eienskappe en benaming van eenvoudige organiese molekules, isomerie, chemiese eienskappe van alkane en sikloalkane, alkene, alkohole, aldehiede en ketone, karboksielsure en esters, amiene en amiede, koolhidrate, proteïne en lipiede.

Inleidende genetika 161 (GTS 161)

Modulekrediete	8.00
Diensmodules	Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie Fakulteit Opvoedkunde Fakulteit Veeartsenykunde
Voorvereistes	MLB 111 GS
Kontaktyd	Prakties tweeweekliks, 2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Genetika
Aanbiedingstydperk	Semester 2

Module-inhoud

Chromosome en seldeling. Beginsels van Mendeliese oorerwing: lokus en allele, dominansie- interaksies en epistase. Waarskynlik-heidsleer. Geslagbepaling en geslagsgekoppelde eienskappe. Stamboomanalise. Ekstranukluêre oorerwing. Genetiese koppeling en chromosoomkartering. Chromosoomvariasie.

Molekulêre en selbiologie 111 (MLB 111)

Modulekrediete	16.00
Diensmodules	Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie Fakulteit Opvoedkunde Fakulteit Gesondheidswetenskappe Fakulteit Veeartsenykunde
Voorvereistes	'n Kandidaat moet Wiskunde met ten minste 60% geslaag het in die G12-eksamen
Kontaktyd	1 praktiese sessie per week, 4 lesings per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Departement	Genetika
Aanbiedingstydperk	Semester 1

Module-inhoud
Inleidende studie van die ultrastruktuur, funksie en samestelling van verteenwoordigende selle en selkomponente. Algemene beginsels van selmetabolisme, molekulêre genetika, selgroei, seldeling en seldifferensiasie.

Mediese terminologie 180 (MTL 180)

Modulekrediete	12.00
Diensmodules	Fakulteit Gesondheidswetenskappe Fakulteit Natuur- en Landbouwetenskappe Fakulteit Veeartsenykunde
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week
Onderrigtaal	Afrikaans en Engels word in een klas gebruik
Departement	Moderne Europese Tale
Aanbiedingstydperk	Semester 1 en Semester 2

Module-inhoud
Die aanleer van ‘n basiese, medies-georiënteerde woordeskat saamgestel uit Latynse en Griekse stamvorme verbind met voor- en agtervoegsels afkomstig uit hierdie tale. Die wyse waarop die betekenisse van mediese terme bepaal word deur die ontleding van mediese terme in hul herkenbare betekenisdraende, samestellende dele word onderrig en ingeoefen. Die funksionele gebruik van mediese terme in konteks as praktiese uitkoms van terminologiese toepassing geniet deurlopend aandag.

Fisika vir Biologiese studente 131 (PHY 131)

Modulekrediete	16.00
Diensmodules	Fakulteit Opvoedkunde Fakulteit Gesondheidswetenskappe Fakulteit Veeartsenykunde
Voorvereistes	'n Kandidaat moet Wiskunde met ten minste 60% geslaag het in die G12-eksamen
Kontaktyd	1 besprekingsklas per week, 4 lesings per week, 1 praktiese sessie per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Departement	Fisika
Aanbiedingstydperk	Semester 1

Module-inhoud
Eenhede, vektore, kinematika, dinamika, arbeid, ewewig, klank, vloeistowwe, warmte, termodinamiese prosesse, elektriese potensiaal en kapasitansie, direkte en wisselstroom, optika, atoomfisika, X-strale, radioaktiwiteit.

Veterinary professional life 100 (VPL 100)

Modulekrediete	2.00

Kontaktyd	2 lesings tweeweekliks
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The focus of the five-year programme on veterinary professional life is on professional and competency development. It also aims to contribute to the development of competencies to enable veterinarians to be consummate professionals capable of dealing with the diverse challenges of professional and everyday life. The VPL 100 module specifically aims to expose students to the diversity of opportunities and career paths in the veterinary profession. It also provides a holistic introduction to human-animal interaction from a veterinary perspective, emphasising the role of animal ethics and welfare in veterinary science.

Wiskunde 165 (WTW 165)

Modulekrediete	16.00
Voorvereistes	Ten minste 50% vir Wiskunde in die Graad 12- eksamen en MGW 112# of 08130005
Kontaktyd	4 lesings per week, 1 tutoriaal per week
Onderrigtaal	Module word in Engels aangebied
Departement	Wiskunde en Toegepaste Wiskunde
Aanbiedingstydperk	Semester 2

Module-inhoud

*Studente sal nie vir meer as een van die volgende modules krediet ontvang vir hul graad nie: WTW 134, WTW 165, WTW 114, WTW 158. WTW 165 gee oor die algemeen nie toelating tot Wiskunde op 200-vlak nie en is vir studente wat Wiskunde slegs op 100-vlak benodig. WTW 165 word slegs in die tweede semester en slegs in Engels aangebied vir studente wat in die eerste semester aansoek gedoen het vir die ongeveer 65 MBChB, of 5-6 BChD plekke wat in die tweede semester beskikbaar word en wat dus ook ingeskryf was vir MGW 112 in die eerste semester van die huidige jaar.Funksies, afgeleides, interpretasie van die afgeleide, differensiasiereëls, toepassings van differensiasie, integrasie, interpretasie van die bepaalde integraal, toepassings van integrasie. Matrikse, oplossings van stelselsvergelykings. Alle onderwerpe word in die konteks van toepassings behandel.

Diereverskeidenheid 161 (ZEN 161)

Modulekrediete	8.00
Diensmodules	Fakulteit Opvoedkunde Fakulteit Veeartsenykunde
Voorvereistes	MLB 111 GS of TDH
Kontaktyd	Prakties tweeweekliks, 2 lesings per week
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Departement	Dierkunde en Entomologie

Aanbiedingstydperk Semester 2

Module-inhoud

Diere-klassifikasie, filogenie, organisasie en terminologie. Evolusie van die verskillende diere-filums, morfologiese eienskappe en lewensiklusse van parasitiese en nie-parasitiese diere. Struktuur en funksie van voortplanting, respirasie, uitskeiding, bloedsomloop en verteringsisteme.

Kurrikulum: Jaar 2

Minimum krediete: 142

Kernmodules

Veterinêre vergelykende anatomie 200 (VCA 200)

Modulekrediete	38.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	Semester 1: 9 lesings per week oor 14 weke, Semester 2: 11 lesings per week oor 14 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Anatomie en Fisiologie
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Anatomical terminology, early embryonic development, central and autonomic nervous systems, cutaneous appendages and musculature, thoracic limb, pelvis, pelvic limb and the head of the major domestic species. Basic avian anatomy.

Veterinêre mikrobiologie 210 (VEM 210)

Modulekrediete	6.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 besprekingsklasse per dag vir 1 dag, 8 besprekingsklasse vir 1 dag, 2 lesings per dag vir 4 dae
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

General introduction to microbiology, bacteriology and mycoplasmology, pathogenesis of bacterial and mycoplasmal infections, rickettsiales and pathogenesis of infection, chlamydiales and pathogenesis of infection, general introduction to fungi and pathogenesis of infection, general introduction to viruses and pathogenesis of infection, laboratory diagnosis of infectious diseases, normal flora of selected organ systems in domestic animals.

Veterinary ethology and genetics 202 (VET 202)

Modulekrediete	18.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe

Voorvereistes	Geen voorvereistes.
Kontaktyd	81 lesings oor 'n tweeweek tydperk
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie module word slegs in Engels aangebied.

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.

Animal production systems 213 (VET 213)

Modulekrediete	8.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 blokke met 'n totaal van 60 lesings
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie module word slegs in Engels aangebied.

Introduction to the concepts of animal production systems in South African production environments. Principles and requirements for extensive, semi-intensive and intensive livestock production with reference to large and small stock, poultry and pigs. Principles of communal farming systems in Southern Africa. Game management systems with reference to conservation and game farming. The role of the human in livestock production systems and sustainable production.

Veterinary immunology 220 (VIM 220)

Modulekrediete	6.00
Voorvereistes	No prerequisites.
Kontaktyd	6 lesings per dag vir 7 dae, 1 seminaar
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Animal science, breeding and nutrition 223 (VKU 223)

Modulekrediete	14.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 blokke met 'n totaal van 60 lesings
Onderrigtaal	Module word in Engels aangebied
Departement	Vee- en Wildkunde
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie module word slegs in Engels aangebied.

Introduction to adaptation physiology with reference to origin and domestication of farm and companion animals. Livestock species, breed development and diversity. Principles of applied animal breeding, quantitative and qualitative inheritance. Trait classification and factors influencing genetic progress in farm animals. 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.

Veterinêre fisiologie en histologie 200 (VPH 200)

Modulekrediete	33.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	Semester 1: 8 lesings per week oor 14 weke, Semester 2: 9 lesings per week vir 14 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Anatomie en Fisiologie
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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 121 (VPL 121)

Modulekrediete	2.00
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The focus of the five-year programme on veterinary professional life is on professional and competency development. It also aims to contribute to the development of competencies to enable veterinarians to be consummate professionals capable of dealing with the diverse challenges of professional and everyday life. The VPL 121 module specifically aims to expose students to the diversity of opportunities and career paths in the veterinary profession

Veterinêre professionele lewe 200 (VPL 200)

Modulekrediete	7.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	9 lesings per dag vir 4 dae
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Information management, societal roles and responsibilities of veterinarians, cultural diversity and group skills, leadership, stress management.

Weidingkunde 213 (WDE 213)

Modulekrediete	12.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 blokke met 'n totaal van 81 lesings
Onderrigtaal	Module word in Engels aangebied
Departement	Plantproduksie en Grondkunde
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie module word slegs in Engels.

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.

Kurrikulum: Jaar 3

Minimum krediete: 139

Kernmodules

General surgery 320 (GNS 320)

Modulekrediete	7.00
Voorvereistes	Geen voorereistes.
Kontaktyd	2 praktiese sessies, 3 lesings per week vir 10 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Algemene en Orgaanpatologie 300 (GOP 300)

Modulekrediete	30.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	7 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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 the various organ systems of the body.

Introductory veterinary diagnostics 300 (IVD 300)

Modulekrediete	24.00
Voorvereistes	No prerequisites.
Kontaktyd	6 praktiese sessies per semester, 3 lesings per week
Onderrigtaal	Module word in Engels aangebied

Departement	Produksiedierstudies
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Diagnostic focus: Introduction to common diagnostic procedures used in key domestic animals including clinical examination, clinical pathology, pain assessment and sedation in relation to clinical examination, basic epidemiological concepts, basic diagnostic imaging modalities and radiation safety.

Clinical physiology focus: The aim is to explain the pathophysiology of commonly occurring clinical conditions and the attempts by the body to re-establish homeostasis. This section of IVD 300 relies heavily on the VPH 200 module for its foundation.

Veterinary research focus: IVD 300 also include a section on the role of research in veterinary science, literature reviews, research design, the role of laboratory animals in veterinary research and examples of research.

Toksikologie 300 (TOX 300)

Modulekrediete	14.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Veterinêre aansteeklike siektes 300 (VIP 300)

Modulekrediete	14.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 lesings per week vir 23 weke, 3 besprekingsklasse per week vir 5 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Algemene veterinêre farmakologie 300 (VPH 300)

Modulekrediete	14.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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 300 (VPL 300)

Modulekrediete	10.00
Voorvereistes	No prerequisites.
Kontaktyd	1 besprekingklas per week vir 7 weke, 2 ander kontaksessies per week vir 14 weke, 2 lesings per week vir 14 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

This module continues with aspects of leadership and diverse personality types and builds on the framework presented earlier in the modules VPL 120 and VPL 200. The aim is to evaluate personal growth during the preceding two years and formulate personal goals for the next two years. Emotional intelligence (EQ) is included in the module and deals with the core skills of self-awareness, self-management, social awareness and relationship management. The module also deals with communication-, conflict management- and negotiation skills with particular reference to the veterinary profession. The module is concluded with basic concepts of financial skills (personal financial fitness), e.g. budgeting (personal and organisational), balance sheets and financial statements (basic understanding) as a precursor to the teaching of more detailed business management principles in the module VPL 510.

Veterinêre Parasitologie 300 (VTP 300)

Modulekrediete	22.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	4 lesings per week, 10 prakties
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Kurrikulum: Jaar 4

Minimum krediete: 142

Kernmodules

Anaesthesiology 420 (ANV 420)

Modulekrediete	8.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	1 praktiese sessie per semester, 3 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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)

Modulekrediete	7.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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)

Modulekrediete	17.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	9 praktiese sessies per jaar, 3 lesings per week vir 14 weke, 2 lesings per week vir 14 weke
Onderrigtaal	Module word in Engels aangebied

Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Diagnostiese patologie 400 (DPT 400)

Modulekrediete	16.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week, 1 praktiese sessie per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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

Perdemedisyne en -chirurgie 410 (EQM 410)

Modulekrediete	14.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	7 lesings per week, 1 praktiese sessie per semester
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Porcine health and production 420 (PHP 420)

Modulekrediete	5.00
Voorvereistes	Geen voorvereistes.

Kontaktyd	2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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

Pluimveegesondheid en -produksie 420 (PLY 420)

Modulekrediete	5.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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

Small animal medicine and surgery 410 (SAS 410)

Modulekrediete	21.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	9 lesings per week, 2 praktiese sessies per jaar
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie module word slegs in Engels.

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)

Modulekrediete	21.00
Diensmodules	Fakulteit Natuur- en Landbouwetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	9 lesings per week, 2 praktiese sessies per jaar
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie module word slegs in Engels.

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.

Veterinary professional life 400 (VPL 400)

Modulekrediete	11.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The veterinarian in context: political roles and responsibilities; collegiality and professional associations; veterinary law and ethics; stressors and stress management.

Veterinary reproduction 400 (VRP 400)

Modulekrediete	17.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	4 lesings per week, 2 praktiese sessies per week vir 10 weke
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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; the Animal Improvement Act.

Kurrikulum: Jaar 5

Minimum krediete: 181

Kernmodules

Beesgesondheid en -produksie 510 (BHP 510)

Modulekrediete	25.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	9 lesings per week, 3 praktiese sessies per semester
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The pathophysiology, diagnosis, prognosis, treatment and control of diseases in cattle. Aspects of clinical veterinary science, including components of clinical diagnosis, therapeutics, medicine, surgery and introductory herd health.

Diagnostiese patologie 510 (DPT 510)

Modulekrediete	9.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	2 lesings per week, 1 praktiese sessies per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Planning and conducting necropsies; diagnostic approach to fatal conditions and diseases of small stock and cattle.

Vetinêre epidemiologie 510 (EPL 510)

Modulekrediete	10.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	3 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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, principles of diagnostic tests.

Small stock health and production 510 (SSH 510)

Modulekrediete	25.00
Kontaktyd	1 ander kontak per week, 6 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

An encompassing approach including case studies, peer instruction and practical group work will enable the student to acquire, understand and apply knowledge regarding small stock production systems. Nutrition, parasite management, disease management, technology and economics will be dealt with.

Veterinary core practice 601 (VCP 601)

Modulekrediete	53.00
Voorvereistes	All modules up to and including the 9th semester of the BVSc curriculum.
Kontaktyd	Ja, 40 ure per week
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

Veterinary elective practice 601 (VEP 601)

Modulekrediete	28.00
Kontaktyd	Ja, 40 ure per week oor 7 weke

Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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. 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)

Modulekrediete	7.00
Kontaktyd	2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Semester 1

Module-inhoud

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)

Modulekrediete	14.00
Kontaktyd	6 lesings per week
Onderrigtaal	Module word in Engels aangebied
Departement	Parakliniese Wetenskappe
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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 business management 510 (VPL 510)

Modulekrediete	10.00
Kontaktyd	3 lesings per week, 9 ander kontak sessies
Onderrigtaal	Module word in Engels aangebied
Departement	Veterinêre Tropiese Siektes
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

This module will deal with business management including basic financial reporting and development of a business plan. Marketing, promotion and sales will be studied in terms of marketing oneself and one’s business. Human resources management will be approached from the perspective of staff recruitment and retention, work place discipline, as well as recognition and rewards for good work performance and application of the Labour Law in the work place. The module will be concluded with strategic client service and management that will focus on client satisfaction and dissatisfaction, approaches to deal with different categories of clients and compassion fatigue and its components.

Kurrikulum: Finale jaar

Minimum krediete: 159

Kernmodules

Veterinary core practice 602 (VCP 602)

Modulekrediete	53.00
Voorvereistes	All modules up to and including the 9th semester of the BVSc curriculum.
Kontaktyd	Ja, 40 ure per week
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

Veterinary core practice 603 (VCP 603)

Modulekrediete	54.00
Voorvereistes	All modules up to and including the 9th semester of the BVSc curriculum.
Kontaktyd	Ja, 40 ure per week
Onderrigtaal	Module word in Engels aangebied
Departement	Geselskapsdier Kliniese Studies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

Veterinary elective practice 602 (VEP 602)

Modulekrediete	28.00
Kontaktyd	40 ure per week oor 7 weke, Ja
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 1

Module-inhoud

* Hierdie module word slegs in Engels aangebied.

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. 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 603 (VEP 603)

Modulekrediete	24.00
Kontaktyd	Ja, 40 hours per week over 6 weeks
Onderrigtaal	Module word in Engels aangebied
Departement	Produksiedierstudies
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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. 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.

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die Algemene Regulasies (G Regulasies) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertroud met hierdie regulasies sowel as met die inligting vervat in die Algemene Reëls sal wees. Onkunde betrefffende hierdie regulasies en reels sal nie as ‘n verskoning by oortreding daarvan aangebied kan word nie.