University of Pretoria Yearbook 2025

Faculty of Veterinary Science

Welcome to the Faculty of Veterinary Science

The Faculty of Veterinary Science of the University of Pretoria is situated on the Onderstepoort campus of the University some 20 km north west of the Hatfield main campus and some 15 km due north of the city centre of Pretoria (Tshwane). It aims to be an internationally accredited seat of veterinary excellence, strives to be globally competitive, regionally pre-eminent and locally relevant whilst providing an effective veterinary interface to Africa. The Faculty has a proud tradition in veterinary and para-veterinary education, research and service-rendering which dates back to the early 1920s.

Faculty regulations and information

The rules for the degrees published here are subject to change and may be amended after the publication of this information.

The General Academic 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.

UNDERGRADUATE-SPECIFIC REGULATIONS

1. Examinations and pass requirements

The following rules apply to the BVSc and BVetNurs programme, in addition to the University of Pretoria General Academic Regulations and General Student Rules, with the exception of pass requirements of service modules presented by other faculties:

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 to campus. Failure to comply may lead to a refusal to be admitted to the examination in the specific module.
ii. Students in the BVSc and BVetNurs programme must register for all the prescribed modules in a particular year of study and may not deregister any such modules.
iii. A student who fails one or more modules for a particular year of study fails that 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, and 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 at least 65%, for which full exemption is granted during the repeat year.
v. For students repeating the fourth, fifth or sixth year in the BVSc programme, or the second year in the BVetNurs programme, exemption from the examination is granted for a module that was passed in the previous year if all lectures, practical sessions 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 contribute 50% respectively towards the final mark for all examination bearing modules..
vii. A head of department may require of a student to complete certain practical and/or clinical procedures or other similar requirements and to provide evidence of such before the student will be allowed access to the examination.
viii. 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.
ix. The content, format and duration of the supplementary, special or Chancellor's examination will be similar to that of the examination, except for oral examinations or online computer based (non-invigilated) examinations. A different format of the supplementary, special or Chancellor's examination may be approved by the Dean under exceptional conditions.
x. Semester tests and examinations are scheduled as stipulated in the Faculty Academic Calendar, as approved by the dean.
xi. A student may apply for admission to a special assessment by using the Faculty's relevant standard operating procedure which is managed by student administration.
xii. The percentage of weighting of subsections of an examination in the calculation of the examination mark, will be indicated in the individual study guides.

i. A student qualifies for a supplementary examination in terms of either of the following circumstances:
    i. Where the final mark obtained is between 40% and 49%, or
    ii. Where the final mark is above 50% and the examination mark is below 40%, or
    iii. Where a subminimum mark for a specified section of the examination is not achieved, as explained in the relevant study guide.

i. A head of department may require from a student who has been admitted to a supplementary examination, to do additional prescribed work for a specified period of time before he or she may take the supplementary examination as approved by the Dean.
ii. A head of department may require of a student to achieve a subminimum score of up to 50% in different components or sections of a supplementary examination, in order to pass the supplementary examination.

2. Perusal and remarking of examination papers scripts (also consult G Reg G14, and the Faculty's Standard Operating Procedure for perusal)

i. After an examination, departments provide feedback to students concerning the framework that was used by the examiners during the examination. The manner in which feedback is given is determined by the head of department and published in the study guides of the specific modules
ii. Students may apply for remarking of an examination paper after perusal of the paper and payment of the prescribed fee. The application must be submitted within 5 working days after the publication of the results of the primary examination, and within 3 working days after the publication of the results of the supplementary examination. The examiner will be appointed by the relevant head of the department. (Re-evaluation of oral examinations is, however, not permitted.).

3. Exclusion

i. A student who is not permitted to re-register in terms of General Academic Regulation G3.2 is automatically excluded from the BVSc or BVetNurs programme at the end of the specific academic year.
ii. A student who fails a particular year of study for the second time is automatically excluded.

4. Re-admission and dismissal
Also refer to General Academic Regulation G4.

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

5. Dress code
Special instructions regarding dress and protective equipment as stipulated in study guides must be adhered to. The details of these will be furnished when students are notified that they have been selected for the programme. Provision is made during the orientation programme for the acquisition of protective clothing. Due to biosecurity concerns, protective clothing cannot be worn as general wear while on campus grounds or after visiting farms.

The Onderstepoort Veterinary Academic Hospital (OVAH) has a specific dress code applicable to students attending to clients and patients. These rules need to be strictly adhered to for the protection of clients and farms as well as to maintain suitable professional etiquette.

6. Vaccinations
It is highly recommended that every student be vaccinated against rabies and tetanus per the recommended schedule for the two specified vaccines. On occasion, the Faculty may arrange for private vaccinations on campus. Said vaccination drives are not compulsory and are for the student's own account. (Provision, when possible, will be made for the availability of documentation to facilitate claims with medical aid schemes.)
Students who are vaccinated for rabies and/or tetanus
are requested to submit proof of vaccination to the Faculty, as well as proof of booster vaccinations
when these are administered.

7. Statutory requirements
It is required of all BVSc and BVetNurs students to register with the South African Veterinary Council (SAVC) as a veterinary student or veterinary nursing student respectively, at the time of first registration in the respective degree programme. Registration has to be renewed annually until completion of the degree programme. As per the stipulations of the Veterinary and Paraveterinary
Professions Act (Act 19 of 1982), students are only allowed to practice as student members of the profession under direct supervision and at no financial gain. Students attempting to practice as
veterinarians or veterinary nurses prior to qualification will be subject to the disciplinary process of the aforementioned Act as well as by the University of Pretoria (With reference to the Disciplinary Code and the relevant G regulation of the University of Pretoria.

POSTGRADUATE-SPECIFIC REGULATIONS

HONOURS DEGREES AND POSTGRADUATE DIPLOMAS

Honours degrees and postgraduate diplomas are postgraduate specialisation qualifications at NQF-level 8 of at least 120 credits. In the Faculty, it is in general aimed at developing specific areas of knowledge and competence in a chosen field. As per the General Academic Regulations (GC3), an honours degree or a postgraduate diploma will allow for admission into an appropriate master's degree (as per the minimum entry requirements).

The Faculty Regulations stipulated below, with the necessary changes, also apply to the honours degree.

Also consult the General Academic Regulations G16 – G29.

Programme information

i. The curriculum consists of four compulsory core and elective theoretical modules of 30 credits each to the total value of 120 credits.

ii. Each module will require a certain amount of contact sessions and the balance may be conducted online. The detail of the sessions for each module is published in the respective study guides.
iii. A minimum number of students could be set (as per the discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a particular module is not reached, the module will not be presented during that academic year but will be offered again in the next academic year. For some modules a maximum number of students who can enrol, may be set. The details for each module are published in the study guides.
iv. Students are required to confirm whether a module will be presented in any particular year, or not. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission

Also consult the General Academic Regulation G16.

A candidate is admitted to a postgraduate diploma programme only if he or she is in possession of an appropriate bachelor's degree, or an appropriate advanced diploma, subject to G16.3 which stipulates that admission is subject to the stipulations of G1.3 and G55, which determine that a candidate may be considered for admission to a postgraduate diploma programme if he or she is a graduate from another higher education institution or has been granted the status of a graduate of such an institution; or, if he or she, by means of the recognition of prior learning (RPL), is deemed to have reached a standard of competence that is considered by Senate to be adequate for the purposes of admission as a student for a postgraduate diploma (Senate Discretionary Admission).

See programme-specific admission requirements below. NOTE: In all instances an admissions examination may be required:

BVScHons *Veterinary Clinical Sciences* (08240071): Relevant bachelor's degree or Bachelor of Technology degree or relevant diploma (NQF level 7). NOTE: Entry into clinical modules will be restricted to persons with the relevant veterinary qualification.

PGDip (Veterinary Health Administration) *Production Animals* (08220073): Relevant bachelor's degree or Bachelor of Technology degree or relevant diploma (NQF level 7). NOTE: Entry into clinical modules will be restricted to persons with the relevant veterinary qualification.

PGDip (Veterinary Health Administration) *State Veterinary Medicine* (08220074): Relevant bachelor's degree or Bachelor of Technology degree or relevant diploma (NQF level 7). NOTE: Entry into clinical modules will be restricted to persons with the relevant veterinary qualification.

Renewal of registration

Also consult the General Academic Regulation G18.

The duration of a postgraduate diploma is one year. Under exceptional circumstances, an extension of one year may be approved by the dean.

i. A full-time student who is registered for postgraduate diploma must complete his or her study within one year of registering for the degree.
ii. Part-time students who are registered for a postgraduate diploma may be allowed to complete their studies within two years of first registering for the degree.

Examinations and pass requirements

Also consult the General Academic Regulations G23 – G28.

i. The postgraduate diploma is conferred on strength of the successful completion of tests/assignments and an

examination on each of the four 30 credit coursework modules.

ii. The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G26.4 and G26.5.

iii. Every module will be evaluated through a variety of continuous assessment methods (i.e. formative assessments, assignments, summative tests, presentations and/or oral defences where applicable) (from which a year mark will be determined), as well as an examination. A year mark of at least 40% is required for admission to the examination. The year mark and examination mark will each contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50% to pass the module.

iv. Detailed information and/or instructions regarding requirements for year or examination assessment methods and marks are published in the relevant study guides. The calculation of marks may differ from module to module. This information is available in the study guides and students are responsible for familiarising themselves with the way in which marks are calculated in a specific module.

v. No automatic adjustment of final individual marks from 38% and 39% to 40%, or from 48% and 49% to 50%, or from 73% and 74% to 75%, for the purposes of obtaining access to a supplementary examination, or a pass mark, or a distinction may occur.

vi. A student passes a module with distinction if he or she obtains a final mark of at least 75%.

vii. A student may only enrol for a module for a second time when the Student Administration of the Faculty receives a written motivation that is supported by the relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies.

Compliance with degree requirements and degree privileges, and qualification with distinction
Also consult the General Academic Regulation G29.

i. A postgraduate diploma qualification will be conferred on a student only if the student has complied with all the requirements for the particular qualification and has reached the level of competence prescribed for each module that is required for the qualification.

ii. No one is entitled to any privileges pertaining to a postgraduate diploma before the qualification has been conferred on him or her at a graduation ceremony. (In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies).

i. Qualification with distinction: A postgraduate diploma is awarded with distinction if a student meets the following requirements:
   i. Obtained a weighted average of at least 75% (not rounded), based on the minimum number of modules prescribed for the qualification in question; and
   ii. Completed the qualification in the minimum period (i.e. one year for a full-time student and two years for a part-time student) (Also consult the General Academic Regulations G18.1), and
   iii. Did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

MASTER'S DEGREES
Also consult the General Academic Regulations G30 – G41.

A master's degree is a postgraduate qualification of at least 180 credits at NQF-level 9. All the master's degrees presented by the Faculty must include a prescribed research component in the form of a research project.

The Faculty offers the following master's degrees:

i. Master's degrees by dissertation (180 credits)
ii. Master's degrees by coursework and mini-dissertation (180 credits)

iii. Professional master's degrees (360 credits)

The following will be applicable for all three master's degree programmes (any programme specific differences will be highlighted under the relevant degree programmes):

Agreement between student and supervisor and progress reports
Also consult the General Academic Regulation G39.

After registration, an agreement **(MOA)** between the student and the supervisor must be signed. The document serves as the basis for the interaction between the student and the supervisor. It indicates their individual roles, responsibilities and expectations and timelines, and makes it clear that they are entering into a binding undertaking with each other. It is the responsibility of the supervisor to monitor the progress of a candidate in regard to the signed agreement (and to update it annually where applicable). In addition, the supervisor should monitor the progress of the candidate continuously by means of the graduate research management system.

An **annual progress report** should be submitted to the Faculty Student Administration and also uploaded onto the graduate research management system.

Any re-registration is conditional on satisfactory progress (see Renewal of registration section below), as confirmed by the Faculty Postgraduate and Research committee based on the annual progress report(s) submitted by the head of department to Faculty Student Administration, as provided by the supervisor. The head of department must also record the approval on the graduate research management system.

Renewal of registration
Also consult the General Academic Regulation G32.

Students enrolled for a **master's degree by dissertation** or a **master's degree by coursework and mini-dissertation**:

i. Must complete their studies within two years after first registering for the degree.
ii. Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.
iii. Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a master's student will be accepted for the second year of the study. [Also see programme specific requirements with regards to certain coursework specific regulations]
iv. Renewal of registration after the two-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures, i.e. when the Student Administration of the Faculty receives a written motivation that is supported by the relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies.

Students enrolled for a **professional master's degree**:

i. An MMedVet master's degree student must complete his or her studies within three years after first registering for the degree.
ii. Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.
iii. Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of an MMedVet master's degree student will be accepted for the second and third year of the study. However, if the supervisor indicated that there was no progress made during a particular registration year, the student may be excluded from the programme.
iv. Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures, i.e. when the Student Administration of the Faculty receives a written motivation that is supported by the

relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies.

General examinations and pass requirements related to dissertations and mini-dissertations
Also consult the General Academic Regulation G39 for Preparation and submission of dissertation, Technical editing of the dissertation, Evaluation of the dissertation, Appointment of the examination panel, Criteria for evaluation, Examiners' reports, Finalisation of reports.

The following general examinations and pass requirements are applicable to dissertations and mini-dissertations for the following programme codes (Note: programme specific or additional requirements are listed under each relevant programme):

- MSc (Veterinary Science) *Anatomy and Physiology* (08251114)
- MSc (Veterinary Science) *Companion Animal Clinical Studies* (08251115)
- MSc (Veterinary Science) *Paraclinical Sciences* (08251116)
- MSc (Veterinary Science) *Production Animal Studies* (08251117)
- MSc (Veterinary Tropical Diseases) (08251118)
- MSc (Veterinary Industrial Pharmacology) (08251018)
- MSc (Veterinary Public Health) (08251025)
- MSc (Veterinary Science) Veterinary Epidemiology (08251027)
- MSc (Veterinary Science) *Wildlife Health, Ecology and Management* (08251026)
- MSc (Veterinary Tropical Diseases) *Global One Health* (08251032)
- MMedVet (Anaesthesiology) (08250132)
- MMedVet (Clinical Laboratory Diagnostic) (08250192)
- MMedVet (Diagnostic Imaging) (08250143)
- MMedVet (Equine Medicine) (08250056)
- MMedVet (Surgery) *Equine Surgery* (08251123)
- MMedVet (Ophthalmology) (08250252)
- MMedVet (Small Animal Medicine) (08250057)
- MMedVet (Small Animal Surgery) (08250024)
- MMedVet (Laboratory Animal Science) (08250212)
- MMedVet (Pathology) (08250102)
- MMedVet (Pharmacology) (08251132)
- MMedVet (Toxicology) (08251142)
- MMedVet (Veterinary Public Health) (08250042)
- MMedVet (Bovine Medicine) *Bovine Health and Production* (08250058)
- MMedVet (Pig Herd Health (08250183)
- MMedVet (Poultry Diseases) (08250172)
- MMedVet (Reproduction) (08250032)
- MMedVet (Small Stock Herd Health) (08250242)
- MMedVet (Wildlife Diseases) (08250222)

A dissertation/mini-dissertation should be submitted with the written permission of the supervisor. Should the supervisor refuse to grant permission for submission, the candidate may request permission to submit from the Faculty Postgraduate and Research committee (consult the General Academic Regulations G39.7.2 for the detailed procedures).

The layout of the dissertation/mini-dissertation shall conform to the dissertation layout guidelines as per the General Academic Regulations G39.10 and G39.11.

A dissertation/mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. usually 30 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the dissertation).

If a dissertation/mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The dissertation/mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1). Also consult the Faculty MSc guidelines and reporting document for internal and external examiners.

i. In addition to the recommendation, the examiner report should indicate the mark that the candidate has achieved, with the understanding that at least 50% is regarded as a pass mark and at least 75% as a pass with distinction.
ii. The average of the separate marks awarded by the two examiners, constitutes the final mark for the dissertation.
iii. Should the examiners recommend minor or major revisions as set out in G39.12.4(b)(ii) and (iii), the relevant section(s) of the examiners' reports will be made available to the candidate by the supervisor in consultation with the head of department, in order for the necessary changes to be made to the dissertation (note: the identity of the examiners may not be revealed to the candidate). As soon as the changes have been made to the dissertation by the candidate, to the satisfaction of the supervisor and the head of the department, the revised dissertation, accompanying rebuttal letter, copy of the draft research article (for master's degree by dissertation and professional master's degrees; see programme specific regulations) and a short report by the supervisor on the result, supported by the relevant head of department must be submitted via the Head: Student Administration to the Faculty Postgraduate and Research committee for recommendation to the dean. In some instances where major revision was necessary, examiners might request that the revised dissertation be returned to the examiner to confirm that the changes have been addressed.
iv. Should an examiner award a mark below 50% and indicated that the revised copy of the dissertation be returned to the examiner to confirm that the suggested changes have been addressed and to ascertain if a pass mark can be awarded; the mark awarded for the revised dissertation will be capped at 50%.
v. If a dissertation does not meet the required standard, but the candidate is invited to review the dissertation and resubmit and amended dissertation, the student may be permitted by the dean, on the recommendation of the relevant head of department, to submit an amended version within 12 months, and in such case the student must bear the full cost of the examination. If a dissertation is rejected, the student cannot resubmit the same research project a second time for examination. The student, if they are allowed to register a second time, will be required to register a new topic. Note: the mark awarded for the revised dissertation will be capped at 50%.
vi. The dissertation can also be rejected and the degree not conferred on the candidate.

See further programme specific requirements (i.e. submission of a draft publication or oral exam, etc.) highlighted under the relevant degree programmes.

Retention and preservation of research data

Also consult the General Academic Regulation G39.

The data generated through the research conducted must be managed in accordance with the University of

Pretoria's Research Data Management policy and the related Research Data Management procedure.

Non-disclosure of the contents of a study (Embargo): Where part of or all the contents of the master's study must remain confidential, the supervisor will be required to submit an application in writing to the Faculty Postgraduate and Research committee setting out the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) academic years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

1) Master's degrees by dissertation

Master's degrees by dissertation is a research master's degree that requires a high level of theoretical engagement and in some cases, demonstration of the ability to relate knowledge to a range of contexts for professional practice. It must contain a research component at NQF level 9 (to the value of 180 credits), culminating in the acceptance of a dissertation. A research master's degree is a full research programme designed to develop research skills which amongst others, allows the graduate to progress seamlessly to the research demands of a PhD.

Also consult the General Academic Regulation G39.

Admission

Also consult the General Academic Regulation G31.

The Faculty offers the following master's degrees by dissertation:

- MSc (Veterinary Science) *Anatomy and Physiology* (08251114)
- MSc (Veterinary Science) *Companion Animal Clinical Studies* (08251115)
- MSc (Veterinary Science) *Paraclinical Sciences* (08251116)
- MSc (Veterinary Science) *Production Animal Studies* (08251117)
- MSc (Veterinary Tropical Diseases) (08251118)

For all master's degrees by dissertation programmes, the Faculty Admissions Regulations state that:

i. A candidate is admitted to a master's programme only if he or she is in possession of a BVSc (or equivalent) degree or relevant four-year BScAgric degree or relevant BSc honours degree or relevant postgraduate diploma (on NQF level 8).
ii. An admissions examination may be required.
iii. The candidate may be required to submit proof of experience in their selected field of study.

In addition:

i. In certain cases, it remains the prerogative of the head of department to require, in addition to the entrance requirements, for the candidate to pass a proficiency test in English (TOEFL).
ii. Postgraduate applicants who have completed any foreign qualifications must have all their previous post-school qualifications evaluated by SAQA where required. Also consult the General Academic Regulations A3.6. In order to assist with foreign qualification verification and comparability in postgraduate cases, the University uses the Foreign Qualification Review (FQR) function as approved by Senate. It should be noted that this does not replace the requirement for the student to obtain the necessary certification.

Programme-specific information

All students should register for (and pass) the module Research methodology (VRM813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

Research information

Also consult the General Academic Regulation G39.

The main objective of master's degree studies is to enable the candidate to learn how to conduct research and undertake training in research methods, under supervision. The basic requirements and Faculty expectations of an MSc are:

i. The candidate should show the ability to undertake a research project and write up the project.
ii. The candidate does not need to make an original contribution to science, but still show the ability to do research independently.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic is determined in consultation with the supervisor and the relevant head of department, and the research project(s)/ dissertation that follow, must be approved according to Faculty guidelines.

Research undertaken by a master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Examinations and pass requirements
The degree is conferred by virtue of the successful completion of a dissertation.

The general guidelines as stipulated under the heading "*Examinations and pass requirements related to dissertations and mini-dissertations*" apply.

Additional programme specific requirement for master's degrees by dissertation: Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study and be approved by the supervisor(s) concerned. The supervisor should then take the draft paper through all the processes of revision and resubmission as may be necessary and/or appropriate for publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Compliance with degree requirements and degree privileges, and qualification with distinction
Also consult the General Academic Regulation G40.

i. A master's degree by dissertation will be conferred on a student only after the successful completion of all requirements of each component of the relevant degree programme, including the submission and successful evaluation of a research-based dissertation, draft publication, and compliance with all the requirements for the particular programme.
ii. A master's degree is not deemed to be completed if the electronic version of the dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

i. Qualification with distinction: A master's degree is awarded with distinction if a student meets the following requirements:
    i. Obtained a mark of 75% or above for the research-based dissertation; and
    ii. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice the prescribed minimum years of study in relation to postgraduate students who study part-time (i.e. study

while working full-time).

2) Master's degrees by coursework and mini-dissertation

A coursework master's degree requires a high level of theoretical engagement and intellectual independence, and in some cases demonstration of the ability to relate knowledge to a range of contexts for professional practice. It must contain a research project comprising at least 60 credits, culminating in the acceptance of a mini-dissertation.

In the Faculty, the coursework master's degree curriculum consists of compulsory core and elective theoretical modules (90 credits) as well as a mini-dissertation (90 credits).

Also consult the General Academic Regulations G35 - 38.

Programme information

i. Each module requires a certain amount of contact sessions and the balance may be presented online. The detail of the contact sessions for each module is published in the study guides.
ii. A minimum number of students could be prescribed (as per the discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a particular module is not reached, the module will not be presented in that academic year but will be offered again in the next academic year. For prescribed modules a maximum number of students who can enrol may be set. The details for each module are published in the study guides.
iii. Registered students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission

Also consult the General Academic Regulation G31.

The Faculty offers the following master's degrees by coursework and mini-dissertation:

- MSc (Veterinary Industrial Pharmacology) (08251018)
- MSc (Veterinary Public Health) (08251025)
- MSc (Veterinary Sience) *Veterinary Epidemiology* (08251027)
- MSc (Veterinary Sience) *Wildlife Health, Ecology and Management* (08251026)
- MSc (Veterinary Tropical Diseases) *Global One Health* (08251032)

For all the master's degrees by coursework and mini-dissertation programmes, the Faculty Admissions Regulations state that

i. A candidate is admitted to a master's degrees by coursework and mini-dissertation programme only if he or she is in possession of a BVSc (or equivalent) degree or relevant four-year BScAgric degree or relevant BSc honours degree or relevant postgraduate diploma (on NQF level 8).
ii. An admissions examination may be required.
iii. The candidate may be required to submit proof of experience in their selected field of study.

In addition:

i. In certain cases, it remains the prerogative of the head of department to require, in addition to the entrance requirements, for the candidate to pass a proficiency test in English (TOEFL).
ii. Postgraduate applicants who have completed any foreign qualifications must have all their previous post-school qualifications evaluated by SAQA where required. Also consult the General Academic Regulations A3.6. In order to assist with foreign qualification verification and comparability in postgraduate cases, the University uses the Foreign Qualification Review (FQR) function as approved by Senate. It should be noted that this does not

replace the requirement for the student to obtain the necessary certification.

iii. In cases where online modules are offered, basic computer skills are required in order to successfully participate in the degree programme.

The following will be applicable for all the master's degrees by coursework and mini-dissertation programmes (any programme specific differences will be highlighted under the relevant degree programmes):

Research information

Also consult the General Academic Regulation G39.

The coursework master's degree consists of coursework modules (90 credits in total) as well as a mini-dissertation (90 credits). A mini-dissertation is not a deemed to be a research-based master's dissertation and is of limited scope and extent. The content should cover enough work for a case report or short communication. The basic requirements and Faculty expectations of a coursework master's degree mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research independently.
iii. The project should be sufficient to generate at least a short communication.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

Candidates must submit a mini-dissertation which deals with an applied field of study. The topic is determined in consultation with the supervisor and the relevant head of department and must be approved according to Faculty guidelines. The mini-dissertation is based on an applied research project or related research projects which need not be original), planned and reported by the candidate. Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged as such.

Research undertaken is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Master's degrees by coursework and mini-dissertation programme examinations and pass requirements: The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.

The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5.

For the coursework, a minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.

If a student fails a coursework module, he/she will have to repeat the module the next year. A module may not be repeated more than twice. Please refer to other specific conditions stipulated in the study guide of each module.

For the mini-dissertation: The general guidelines as stipulated under the heading "*Examinations and pass requirements related to dissertations and mini-dissertations*" apply.

Programme-specific information

2.1 For the following four programmes there are only curriculum differences; for all of them, the research information, examinations and pass requirements as set out above (under the heading “Master’s degrees by coursework and mini-dissertation programme examinations and pass requirements”) applies.

2.1.1 MSc (Veterinary Public Health)

Curriculum: The curriculum consists of three compulsory core modules (EPL 851, VPH 881 and VPH 883 for 10, 40 and 40 credits, respectively) as well as a mini-dissertation (90 credits). In addition, students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

2.1.2 MSc (Veterinary Science) *Veterinary Epidemiology*

Curriculum: The curriculum consists of six compulsory core modules (EPL 851, EPL 852, EPL 853, EPL 855, EPL 856 and EPL 895 for 10, 20, 20, 5, 5 and 15 credits, respectively), as well as a mini-dissertation (90 credits). In addition, students should elect any appropriate module on 800 level to the value of at least 15 credits (to make up the total of 90 credits for the coursework), approved by the head of department. Students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

2.2 For the following two programmes (programme codes: 08251018, 08251026), there will **only be an intake of new students every second year.** It remains the applicant’s responsibility to ensure that the degree they wish to apply for, will indeed be presented. Please contact the relevant head of department according to the syllabi information provided in the list of modules in this Faculty Regulations document. Note: the research information, and the examinations and pass requirements as set out above (under the heading “Master’s degrees by coursework and mini-dissertation programme examinations and pass requirements”) apply; programme specific regulations are indicated below.

2.2.1 MSc (Veterinary Science) *Wildlife Health, Ecology and Management*

Curriculum: The curriculum consists of four compulsory core modules (NLB 800, NLB 810, WLS 810 and WLS 811 for 20, 20, 20 and 15 credits, respectively) and a choice of one of two elective modules (WLS 812 or WLS 813 for 15 credits each), as well as a mini-dissertation (90 credits). In addition, students are also permitted to elect any other appropriate module on 800 level to the value of 15 credits (instead of choosing one of the two electives offered in the programme), approved by the head of department. Students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

Note: The first year is dedicated to coursework modules whilst the 2nd year is dedicated to the research work.

Additional entry requirements: The programme is limited to minimum of 4 students and maximum of 12 students for enrolment. Due to an increased interest in the programme, all applicants will be subjected to an entry test.

Additional examinations and pass requirements: In addition to what is set out above under the heading “Master’s degrees by coursework and mini-dissertation programme examinations and pass requirements”, the following also apply:

i. Failure of certain basic core modules (NLB 810, NLB 800, WLS 810, WLS 811) in the first semester of the first year will lead to the student not being able to proceed with other modules and the student will have to repeat the modules when they are offered again (Note: The first year of entry is every 2 years). This is stipulated in the study guide of each of the modules.
ii. These students will be offered a special examination if they meet the minimum requirements, and an additional extra-ordinary examination if they meet the requirements stipulated in the study guide.
iii. If the student successfully completed VRM 813 in year 1, he/she may continue with the research project in year 2.

2.2.2 MSc (Veterinary Industrial Pharmacology)

Curriculum: The curriculum consists of two compulsory core modules (FAK 876 and VIP 800 for 40 and 50 credits, respectively) as well as a mini-dissertation (VIP890 for 90 credits). In addition, students should also register for (and pass) the module Research methodology (VRM813) (non-credit-bearing).

Note: The first year is dedicated to coursework modules whilst the 2nd year is dedicated to the research work.

Additional examinations and pass requirements: In addition to what is set out above under the heading "Master's degrees by coursework and mini-dissertation programme examinations and pass requirements", the following also apply:
Failure of either FAK 876 or VIP 800 core modules: the student will have to repeat the modules when they are offered again (Note: The first year of entry is every 2 years). This is stipulated in the study guide of each of the modules.
These students will be offered a special examination if they meet the minimum requirements, and an additional extraordinary examination if they meet the requirements stipulated in the study guide.
If the student successfully completed VRM 813 in year 1, he/she may continue with the research project in year 2.

2.3 The following programme (08251030) is presented in collaboration with the Institute of Tropical Medicine, Antwerp, Belgium and differs from the above with regards to a number of aspects:

2.3.1 MSc (Veterinary Tropical Diseases) *Global One Health*

Curriculum: This degree is offered by means of a combination of e-learning, face-to-face teaching and a compulsory collaborative induction/field-workshop. It consists of the following components:

i. A two-week compulsory induction/field-workshop.
ii. Four compulsory core modules (AHE 811, EPL 802, OHB 801 and VRM 812 for 9, 12, 12 and 9 credits, respectively) - all taken in the first semester of Year 1.

i. Elective modules: Elect modules to the value of 48 credits from the list of elective modules below, and ensure that the following rules are adhered to:
    i. **Choose two modules to the value of 18 credits from the following skills-based modules:** ASR 811, AVB 817, AVH 811, AVV 811, EPL 804, TCK 811 and VMB 816.
    ii. **Choose three modules from the following list of theory-based modules:** AHE 812, AHE 813, AHE 814, AHE 815, AHE 816, EPL 803, GVD 811 and TBD 814.

i. Mini-dissertation (90 credits).

Additional requirements: According to the Bologna Bachelor-Master structure, a master's degree is required to register at ITM. (Note: A four-year BSc degree in the South African context is equivalent to a Master's degree in the Bologna system).

Additional examinations and pass requirements: In addition to what is set out above under the heading "*Master's degrees by coursework and mini-dissertation programme examinations and pass requirements*", the following also applies for the coursework modules:

i. A student that fails two or more core modules (AHE 811, EPL 802, OHB 801, VRM 812) during the first semester of Year 1, will not be allowed to continue in the MSc programme.
ii. If a student fails a coursework module, he/she will have to repeat the module the following year. A module cannot be repeated more than twice.

For the mini-dissertation: In addition to what is set out above under the heading "*Master's degrees by coursework and mini-dissertation programme examinations and pass requirements*", the following also applies with regards to the mini-dissertation: The mini-dissertation will include an oral examination conducted face to

face or via video conference. The oral examining panel will include an examiner from each institute (excluding the supervisor). A mark constituting a maximum of 10% of the final mini-dissertation mark must be granted. The dissertation will be examined by one internal and one external examiner as stipulated by the UP regulations; this mark will constitute 90% of the final mini-dissertation mark.

Compliance with degree requirements and degree privileges, and qualification with distinction
Also consult the General Academic Regulations G40.

i. A coursework master's degree, will only be conferred on a student after the successful completion of the requirements of each component of the relevant degree programme, including a pass mark for each of the prescribed coursework modules, the submission and successful evaluation of the mini-dissertation or other research-relevant output as may be required, and compliance with all the prescribed requirements for the particular programme.
ii. A coursework master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a coursework master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

i. Qualification with distinction: A coursework master's degree is awarded with distinction if a student meets the following requirements:
    i. Obtained a weighted average of at least 75% (not rounded) in the coursework modules required to comply with degree requirements; and
    ii. Obtained a final mark of 75% or above for the mini-dissertation; and
    iii. Completed the qualification within the maximum period allowed for master's study, but subject to being registered for at least the prescribed minimum period of one academic year. **Note:** the maximum allowable time is twice the prescribed in relation to postgraduate students who study part-time (i.e. study while working full-time).
    iv. In the case of a coursework master's degree, the student did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating the final marks in order to qualify for a distinction.

3) Professional master's degrees
A specialist master's degree requires a high level of theoretical and practical engagement, intellectual independence as well as a demonstration of the ability to apply knowledge to the resolution of complex problems in appropriate areas of professional practice. In addition, a professional master's degree must include a research component that comprises at least 45 credits, culminating in the acceptance of a mini-dissertation or other forms of research such as technical reports, and/or a series of peer-reviewed articles or other research-equivalent outputs.

In the Faculty, a master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits designed to be completed in 3 years of full-time study (residential training program). The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist. The student bears the responsibility of ensuring that they familiarise themselves with the SAVC requirements and regulations that might be applicable for registration as a specialist.

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

Programme information

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission

Also consult the General Academic Regulations G31.

The Faculty offers the following master's degrees by coursework and mini-dissertation:

- MMedVet (Anaesthesiology) (08250132)
- MMedVet (Clinical Laboratory Diagnostic) (08250192)
- MMedVet (Diagnostic Imaging) (08250143)
- MMedVet (Equine Medicine) (08250056)
- MMedVet (Surgery) *Equine Surgery (*08251123)
- MMedVet (Ophthalmology) (08250252)
- MMedVet (Small Animal Medicine) (08250057)
- MMedVet (Small Animal Surgery) (08250024)
- MMedVet (Laboratory Animal Science) (08250212)
- MMedVet (Pathology) (08250102)
- MMedVet (Pharmacology) (08251132)
- MMedVet (Toxicology) (08251142)
- MMedVet (Veterinary Public Health) (08250042)
- MMedVet (Bovine Medicine) *Bovine Health and Production* (08250058)
- MMedVet (Pig Herd Health (08250183)
- MMedVet (Poultry Diseases) (08250172)
- MMedVet (Reproduction) (08250032)
- MMedVet (Small Stock Herd Health) (08250242)
- MMedVet (Wildlife Diseases) (08250222)

For all the professional master's degrees programmes, the Faculty Admissions Regulations state that

i. A candidate is admitted to a professional master's degrees programmes only if he or she is in possession of a BVSc degree or an equivalent veterinary degree.
ii. Have applicable experience as a veterinarian of at least two years, or training of at least one year in the specific field as an intern at a recognised training facility.
iii. An entrance examination may be required.
iv. Registration as a veterinarian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for MMedVet studies.

In addition:

i. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration.

ii. In certain cases, it remains the prerogative of the head of department to require, in addition to the entrance requirements, for the candidate to pass a proficiency test in English (TOEFL).
iii. Postgraduate applicants who have completed any foreign qualifications must have all their previous post-school qualifications evaluated by SAQA where required. Also consult the General Academic Regulations A3.6. In order to assist with foreign qualification verification and comparability in postgraduate cases, the University uses the Foreign Qualification Review (FQR) function as approved by Senate. It should be noted that this does not replace the requirement for the student to obtain the necessary certification.
iv. International requirements: Candidates are required to write the SAVC exam and be registered with the SAVC or apply for special permission from the council before applying for a MMedVet degree.

Notification:
While the MMedVet is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well.

Selection process:

i. Based on an interview.
ii. The number of students that can be admitted to the MMedVet degree programme annually depends on the training capacity of a department, the number of specialists appointed and the number of available posts.

Unpaid residency posts may be considered, provided the student meets the necessary qualifying standards to the satisfaction of the head of department. These unpaid residency posts are for a period of 3 years, which can be extended to 4 years with the dean’s approval.

Programme-specific information
All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

Research information
Also consult the General Academic Regulation G38.

The MMedVet master’s degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research independently.
iii. The project should be sufficient to generate a full research paper.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master’s degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialisation. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master’s student is conducted in accordance with the University’s Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may

consider and approve, or reject research proposals in accordance with the guidelines of the general policy.

Examinations and pass requirements
Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guideline as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation: The general guidelines as stipulated under the heading "*Examinations and pass requirements related to dissertations and mini-dissertations*" apply.

Before, or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then take the draft paper through all the processes of revision and resubmission as may be necessary and/or appropriate for publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Compliance with degree requirements and degree privileges, and qualification with distinction
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

i. Qualification with distinction: A professional master's degree is awarded with distinction if a student meets the following requirements:
   i. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
   ii. Obtained a final mark of 75% or above for the mini-dissertation; and
   iii. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time (i.e. study while working full-time).
   iv. In the case of a coursework master's degree, the student did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating the final marks in order to qualify for a distinction.

CONVERSION OF MASTER'S BY DISSERTATION TO DOCTORAL STUDY

Consult the General Academic Regulation G41.

DOCTORAL DEGREES

Also consult the General Academic Regulations G42 – G55.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit the publication of at least three research articles. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal.

Admission

Also consult the General Academic Regulation G42.

The Faculty offers the following doctoral degrees:

- PhD (Veterinary Science) (Anatomy and Physiology) (08261006)
- PhD (Veterinary Science) (Companion Animal Clinical Studies) (08261007)
- PhD (Veterinary Science) (Paraclinical Sciences) (08261008)
- PhD (Veterinary Science) (Production Animal Studies) (08261009)
- PhD Veterinary Science) (Tropical Diseases) (08260272)

For all doctoral degree programmes, the Faculty Admissions Regulations calls for:

i. Relevant master's degree in science.

In addition:

i. It remains the prerogative of the relevant head of department to require an admissions test prior to registration for the degree study, in addition to the regulatory requirements.
ii. A pass in a proficiency test in English (TOEFL) at an acceptable level may also be required, especially in the case of international candidates. In order to assist with foreign qualification verification and comparability in postgraduate cases, the University uses the Foreign Qualification Review (FQR) function as approved by Senate. It should be noted that this does not replace the requirement for the student to obtain the necessary certification.
iii. Postgraduate applicants who have completed any foreign qualifications must have all their previous post-school qualifications evaluated by SAQA where required. Also consult the General Academic Regulations A3.6.

Agreement between student and supervisor and progress reports

Also consult the General Academic Regulation G50.

After registration, an agreement **(MOA)** between the student and the supervisor must be signed. The document serves as the basis for the interaction between the student and the supervisor. It indicates their individual roles, responsibilities and expectations and timelines, and makes it clear that they are entering into a binding undertaking with each other. It is the responsibility of the supervisor to monitor the progress of a candidate in regard to the signed agreement (and to update it annually where applicable). In addition, the supervisor should monitor the progress of the candidate continuously by means of the graduate research management system.

An **annual progress report** should be submitted to the Faculty Student Administration and also be uploaded onto the graduate research management system.

Any re-registration is conditional on satisfactory progress in the first two years of study, as confirmed by the Faculty Postgraduate and Research committee - based on the annual progress report(s) submitted by the head of department, and as provided by the supervisor. The head of department must also record the approval on the graduate research management system.

Research information

Also consult the General Academic Regulation G50.

The main objective of doctoral studies is to enable the candidate to to demonstrate high-level research capability and make a significant and original academic contribution at the frontiers of a discipline or field. The basic requirements and expectations of a PhD at the Faculty are:

i. That the project should have been planned, executed and the results written up by the candidate.
ii. The findings should make an original, meaningful contribution to science.
iii. The project should be sufficient to generate three research articles of which at least one must be published to comply with the degree requirements. It is recommended that the second article has been submitted for publication and the third to be in a draft format when the thesis is submitted for examination.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic will be determined in consultation with the supervisor and the relevant head of department, following which the research projects will be approved in terms of Faculty guidelines and the General Academic Regulations. Each candidate must satisfy the relevant head of department that he or she is working at an institution with the necessary facilities, to enable him or her to complete the work as required for the degree, satisfactorily.

Research undertaken by a doctoral student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Renewal of registration

Also consult the General Academic Regulation G44.

A student for doctoral studies must complete his or her studies within three years after first registering for the degree.

Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.
Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a doctoral student will be accepted for the second and third year of the study.

Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures, i.e. when the

Student Administration of the Faculty receives a written motivation that is supported by the relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies.

Examinations and pass requirements

Also consult the General Academic Regulation G50 for Preparation and submission of a thesis, Technical editing of the thesis, Evaluation of the thesis, Appointment of the examination panel, Criteria for evaluation, Examiners' reports, Finalisation of reports.

The degree is conferred by virtue of the successful completion of a thesis as well as and the submission of proof of acceptance of first-author research article for publication issued by an accredited journal. The thesis must contain proof of a candidate's ability to conduct original research that contributes to the development of new knowledge and expertise.

The following is applicable to theses:

A thesis should be submitted with the written permission of the supervisor. Should the supervisor refuse to grant permission for submission, the candidate may request permission to submit from the Faculty Postgraduate and Research committee (consult the General Academic Regulations G50.1.7(b) for the detailed procedures).

The format of the thesis shall conform to the thesis guidelines as per the General Academic Regulations G50.2 and G50.3.

Should a thesis be prepared based on published papers (i.e. in cases where a doctoral candidate has published articles based on results emanating from the doctoral study conducted at the University while being registered as a doctoral candidate, prior to the submission of the thesis), the General Academic Regulation G50.1.9 needs to be complied with.

A thesis is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. usually 30 August or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G50 with regard to the submission and technical editing of the thesis).

If a thesis is submitted after the due date specified above, the student takes the risk that the examination of the thesis may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

Before or on submission of the final copy of the thesis, a student must submit proof of acceptance of a first-author research article for publication issued by an accredited journal, to the Head: Student Administration.

i. The accepted article should be based on the research study(ies) undertaken (and as approved by the Faculty Research Ethics committee) during the doctoral study, and be approved by the supervisor(s) concerned. The following will not suffice in meeting this criterion:

- A published case study.
- A published literature review (e.g. the introduction to the thesis). Exceptions may, however, be considered (on prior approval by the Chair of the Postgraduate and Research Committee) where the review is published in the form of a meta-analysis or significant re-analysis (with an appropriate statistical methodology), and consists of a significant piece of 'original' research in its own right.

ii. In all instances, the affiliation of both the student and the supervisor(s) must be indicated as the University of Pretoria.

iii. The supervisor shall be responsible for ensuring that the accepted article has been taken through all the procedures of revision and resubmission, as may be necessary. That will also be the case for any further publications emanating from the study after graduation. Note: although not a formal requirement, it is

expected that the doctoral study will result in at least three first-author publications for the student (of which one will constitute the accepted publication as referred to above). It is also recommended that the second article has been submitted for publication and the third to be in a draft format when the thesis is submitted for examination.

iv. In exceptional cases the Dean may allow a student to graduate subject to UP Regulations. (Also consult the General Academic Regulation G51).

The thesis will be evaluated by three examiners (for the appointment of the examination panel, consult the General Academic Regulation G50.4.1). Also consult the Faculty MSc guidelines and reporting document for internal and external examiners.

i. A specific mark for the thesis is not allocated, but the examiner's report should clearly state the recommendation that the thesis be accepted or rejected. Reasons must be provided should the recommendation be that the thesis should be rejected.
ii. If the degree is to be conferred without any changes as contemplated in G50.4.4(b)(i), the supervisor must submit a short report on the result, supported by the relevant head of department via the Head: Student Administration to the Faculty Postgraduate and Research committee for recommendation to the dean. Proof of acceptance of a publication should also be submitted.
iii. If the examiners recommend minor or major revisions as set out in G50.4.4(b)(ii) and (iii), the relevant section(s) of the examiners' reports will be made available to the candidate by the supervisor in consultation with the head of department, in order for the necessary changes to be made to the thesis (note: the identity of the examiners may not be revealed to the candidate). As soon as the changes have been made to the thesis by the candidate, on recommendation of the supervisor and to the satisfaction of the supervisor and the head of the department, the revised thesis, accompanying rebuttal letter, proof of acceptance of a publication and a short report by the supervisor on the result, supported by the relevant head of department must be submitted via the Head: Student Administration to the Faculty Postgraduate and Research committee for recommendation to the dean. In some instances where major revision was necessary, examiners might request that the revised thesis be returned to the examiner to confirm that the changes have been addressed.
iv. If the examiner(s) recommend the thesis cannot be accepted in its current form but that the candidate be invited to revise the thesis and to resubmit it as soon as the candidate has made the recommended major changes to the thesis, it is required that the revised copy of the thesis (and accompanying rebuttal letter) be returned to the examiner to confirm that the suggested changes have been addressed and to ascertain that the thesis can be accepted. If the examiner upon re-examination accept the thesis, the same procedure as described above under point (iii) will be applicable.
v. If a thesis does not meet the required standard, but the candidate is invited to review the thesis and resubmit an amended thesis, the student may submit an amended version within 12 months, and in such case the student must bear the full cost of the examination. If a thesis is rejected, the student cannot resubmit the same research project a second time for examination. The student, if they are allowed to register a second time, will be required to register a new topic.

Faculty PhD Celebration:
Candidates will be invited immediately prior to their graduation to present their work to the faculty, friends and family that they've invited to the event. The faculty will cater for this event and ensure that students and senior management are available for photographic opportunities. Student will be required to be in formal academic attire for the event. It is also recommended, where possible, that supervisors, and faculty management also be in formal academic attire for the event.

Compliance with degree requirements and degree privileges, and qualification with distinction

Also consult the General Academic Regulation G54.

i. A doctoral degree will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the submission and successful evaluation of the thesis, proof of acceptance of a research publication in an accredited journal, as well as compliance with all the requirements for the particular programme.
ii. A doctoral degree, including a doctoral degree by virtue of publications, is not deemed to be completed if the electronic version of the thesis or other research-relevant output has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a doctoral degree, or a doctoral degree by virtue of publications, before the qualification has been conferred on him or her at a graduation ceremony.
iv. A doctoral degree, including a doctoral degree by virtue of publications, is not conferred with distinction.

Retention and preservation of research data

Also consult the General Academic Regulation G50.

The data generated through research conducted at the University of Pretoria must be managed in accordance with the Research Data Management policy and the related Research Data Management procedure. The policy enables the verification of the research and is aimed at the protection of students, researchers, principal investigators and the University against a variety of disputes concerning published or patented research, and the retention of detailed research records for later access.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the doctoral study must remain confidential, the supervisor will be required to submit an application in writing to the Faculty Postgraduate and Research committee stating the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) academic years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

DOCTORAL DEGREE BY VIRTUE OF PUBLICATIONS

Consult the General Academic Regulation G53.

Undergraduate Degree

Bachelor of Veterinary Nursing [BVetNurs] (08130006)

Minimum duration of study	3 years

Programme information

This programme is accredited with the South African Veterinary Council (SAVC).
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 Nursing. 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 veterinary nurses before they may practise in South Africa in this capacity.

Also refer to General Academic Regulations G1-G15.

Admission requirements

Important information for all prospective students for 2025

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	**Mathematics**	**Physical Sciences or Life Sciences**	**APS**
NSC/IEB	NSC/IEB	NSC/IEB	
4	4	4	**28**

For advice on a second-choice programme for Bachelor of Veterinary Nursing, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.

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 International undergraduate prospectus 2025. Applicants with a school leaving certificate not issued by Umalusi (South Africa), available at click here.

International Students: Click here

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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 ommission of information, or any false information provided by an applicant in his/her application or on the Veterinary Nursing Value-added Form (VNVAF) may result in the immediate cancellation of the application, admission or registration.

Examinations and pass requirements

Refer to UP General Academic Regulations and General Student Rules

i. All modules of this programme are compulsory.
ii. Attendance of all lectures, practical, and clinic duties is compulsory. Any form of absence must be justified by submission of a medical certificate or valid documentation, within 3 working days after returning. Failure to comply may result in examination refusal.
iii. No minimum semester/year mark is required for admission to the examination.
iv. The semester/year marks and examination mark will count 50% each towards the final mark. Only semester/year, examination and final marks are to be rounded. No condonement of marks will be allowed.
v. 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 relevant head of department, and as set out in the study guide.
vi. 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.
vii. A second- 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 if at least 80% of the practical periods were attended and a year/semester mark of at least 50% was obtained. This applies to modules where full exemption is not granted (because the final mark in the previous year was less than 65%).

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.

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. Students who have obtained a semester/year mark of 65% or more in a particular module may be promoted according to UP's General Academic Regulations. Departments will be allowed to use discretion in this regard. The rule will be stated in the study guide of the respected module.

x. Examinations are conducted as stipulated in the Faculty Calendar.

xi. A student will be allowed to repeat a particular year of study only once.

Practical/clinical/internship information

Proof of satisfactory completion of all prescribed clinical and practical components of the programme must be submitted to the Head: Student Administration of the Faculty.

Pass with distinction

The BVetNurs is conferred with distinction on a student who meets the following conditions:

- completes the degree in three years, and
- obtains a cumulative weighted average of at least 75% over the second and third years of study (the cumulative weighted average will not be rounded up to a whole number).

Curriculum: Year 1

Minimum credits: 120

Fundamental modules

Academic information management 111 (AIM 111) - Credits: 4.00
Academic information management 121 (AIM 121) - Credits: 4.00
Language and study skills 110 (LST 110) - Credits: 6.00
Academic orientation 108 (UPO 108) - Credits: 0.00

Core modules

Clinical veterinary nursing 121 (CVN 121) - Credits: 8.00
Clinical veterinary nursing 122 (CVN 122) - Credits: 8.00
Nursing professional life 100 (LPN 100) - Credits: 15.00
Primary animal health care 110 (PAH 110) - Credits: 18.00
Veterinary nursing practice 110 (PVN 110) - Credits: 12.00
Veterinary nursing practice 120 (PVN 120) - Credits: 15.00
Foundational veterinary sciences 110 (SVF 110) - Credits: 15.00
Foundational veterinary sciences 120 (SVF 120) - Credits: 15.00

Curriculum: Year 2

Minimum credits: 120

Core modules

Clinical veterinary nursing 211 (CVN 211) - Credits: 18.00
Clinical veterinary nursing 212 (CVN 212) - Credits: 12.00

Clinical veterinary nursing 213 (CVN 213) - Credits: 12.00
Clinical veterinary nursing 214 (CVN 214) - Credits: 12.00
Clinical veterinary nursing 221 (CVN 221) - Credits: 12.00
Clinical veterinary nursing 222 (CVN 222) - Credits: 18.00
Clinical veterinary nursing 223 (CVN 223) - Credits: 18.00
Nursing professional life 210 (LPN 210) - Credits: 12.00
Veterinary nursing practice 200 (PVN 200) - Credits: 6.00

Curriculum: Final year

Minimum credits: 148

Core modules

Nursing professional life 300 (LPN 300) - Credits: 8.00
Veterinary nursing practice 300 (PVN 300) - Credits: 160.00

Bachelor of Veterinary Science [BVSc] (08130005)

Minimum duration of study	6 years

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 2025

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	Mathematics	Physical Sciences	APS
NSC/IEB	NSC/IEB	NSC/IEB	
5	5	5	**35**

Proposed second choice programmes for Bachelor of Veterinary Science are Bachelor of Science in Zoology and Bachelor of Science in Agriculture in Animal Science. These programmes are also recommended for applicants who intend to apply again for a transfer to the Bachelor of Veterinary Science programme in 2026 or later. Note: Students who intend to apply for admission to Bachelor of Veterinary Science may register for Bachelor of Science in Zoology or Bachelor of Science in Agriculture in Animal Science 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 International undergraduate prospectus 2025: Applicants with a school leaving certificate not issued by Umalusi (South Africa), 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 ommission 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.

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.

Curriculum: Year 1

Minimum credits: 122

Fundamental modules

Academic information management 111 (AIM 111) - Credits: 4.00
Academic information management 121 (AIM 121) - Credits: 4.00
Language and study skills 110 (LST 110) - Credits: 6.00
Academic orientation 108 (UPO 108) - Credits: 0.00

Core modules

Biometry 120 (BME 120) - Credits: 16.00
Chemistry 151 (CMY 151) - Credits: 16.00
Introductory genetics 161 (GTS 161) - Credits: 8.00
Molecular and cell biology 111 (MLB 111) - Credits: 16.00
Medical terminology 180 (MTL 180) - Credits: 8.00
Physics for biology students 131 (PHY 131) - Credits: 16.00
Veterinary professional life 101 (VPL 101) - Credits: 4.00
Mathematics 165 (WTW 165) - Credits: 16.00
Animal diversity 161 (ZEN 161) - Credits: 8.00

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) - Credits: 8.00
Veterinary comparative anatomy 201 (VCA 201) - Credits: 28.00
Veterinary microbiology 210 (VEM 210) - Credits: 6.00
Veterinary ethology 202 (VET 202) - Credits: 18.00
Veterinary immunology 220 (VIM 220) - Credits: 6.00
Principles of animal nutrition 224 (VKU 224) - Credits: 12.00
Veterinary physiology and histology 200 (VPH 200) - Credits: 33.00
Veterinary professional life 122 (VPL 122) - Credits: 4.00
Veterinary professional life 201 (VPL 201) - Credits: 5.00

Pasture science 213 (WDE 213) - Credits: 12.00

Curriculum: Year 3

Minimum credits: 128

Core modules

General surgery 310 (GNS 310) - Credits: 7.00
General and organ pathology 300 (GOP 300) - Credits: 30.00
Introductory veterinary diagnostics 300 (IVD 300) - Credits: 20.00
Veterinary toxicology 300 (TOX 300) - Credits: 14.00
Veterinary infectious diseases 300 (VIP 300) - Credits: 14.00
Ethnoveterinary medicine 310 (VME 310) - Credits: 3.00
General veterinary pharmacology 300 (VPH 300) - Credits: 14.00
Veterinary professional life 301 (VPL 301) - Credits: 6.00
Veterinary parasitology 300 (VTP 300) - Credits: 20.00

Curriculum: Year 4

Minimum credits: 134

Core modules

Anaesthesiology 420 (ANV 420) - Credits: 7.00
Clinical pathology 410 (CLP 410) - Credits: 7.00
Diagnostic imaging 400 (DIM 400) - Credits: 14.00
Diagnostic pathology 401 (DPT 401) - Credits: 12.00
Veterinary epidemiology 420 (EPL 420) - Credits: 10.00
Equine medicine and surgery 400 (EQM 400) - Credits: 19.00
Small animal medicine and surgery 410 (SAS 410) - Credits: 21.00
Small animal medicine and surgery 420 (SAS 420) - Credits: 23.00
Veterinary professional life 401 (VPL 401) - Credits: 7.00
Veterinary reproduction 400 (VRP 400) - Credits: 14.00

Curriculum: Year 5

Minimum credits: 161

Core modules

Diagnostic pathology 511 (DPT 511) - Credits: 12.00
Porcine health and production 510 (PHP 510) - Credits: 5.00
Poultry health and production 510 (PLY 510) - Credits: 5.00
Ruminant medicine and surgery 510 (RUM 510) - Credits: 24.00
Ruminant production medicine and herd health 511 (RUM 511) - Credits: 16.00
Veterinary core practice 520 (VCP 520) - Credits: 52.00
Veterinary elective practice 520 (VEP 520) - Credits: 8.00
One health 510 (VOH 510) - Credits: 4.00
Veterinary public health 510 (VPH 510) - Credits: 14.00
Veterinary professional life 511 (VPL 511) - Credits: 8.00
Veterinary research report 520 (VRE 520) - Credits: 8.00
African wildlife management and conservation 510 (WMC 510) - Credits: 5.00

Curriculum: Final year

Minimum credits: 160

Core modules

Veterinary core practice 610 (VCP 610) - Credits: 52.00
Veterinary core practice 620 (VCP 620) - Credits: 52.00
Veterinary elective practice 610 (VEP 610) - Credits: 24.00
Veterinary elective practice 620 (VEP 620) - Credits: 16.00
Veterinary research report 600 (VRE 600) - Credits: 16.00

Postgrad Diploma/Certificate

PGDip in Veterinary Health Administration option Production Animals (08220073)

Minimum duration of study	1 year

Programme information

Postgraduate Diplomas are postgraduate specialisation qualifications at NQF-level 8 of at least 120 credits. In the Faculty, it is in general aimed at developing specific areas of knowledge and competence in a chosen field. As per the General Academic Regulations (GC3), a Faculty postgraduate diploma will allow for admission into an appropriate master's degree (as per the minimum entry requirements).

Also consult the General Academic Regulations G16 – G29 and Postgraduate Faculty Regulations.

i. The curriculum consists of four compulsory core and elective theoretical modules of 30 credits each to the total value of 120 credits.
ii. Each module will require a certain amount of contact sessions and the balance may be conducted online. The detail of the sessions for each module is published in the respective study guides.
iii. A minimum number of students could be set (as per the discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a particular module is not reached, the module will not be presented during that academic year but will be offered again in the following academic year. For some modules a maximum number of students who can enrol may be set. The details for each module are published in the study guides.
iv. Students are required to confirm whether a module will be presented in any particular year or not. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Renewal of registration

Also consult the General Academic Regulation G18.
The duration of a postgraduate diploma is one year. Under exceptional circumstances, an extension of one year may be approved by the Deputy Dean: Research and Postgraduate studies.

i. A full-time student who is registered for postgraduate diploma must complete his or her study within one year of registering for the degree.
ii. Part-time students who are registered for a postgraduate diploma may be allowed to complete their studies within two years of first registering for the degree.

Admission requirements

1. Relevant bachelor's degree
   or
   Bachelor of technology degree
   or
   Relevant diploma (NQF-level 7)

Note:

1. An admissions examination may be required
2. Entry into clinical modules will be restricted to persons with the relevant veterinary qualification

Examinations and pass requirements

Also consult the General Academic Regulations G23 – G28.

i. The postgraduate diploma is conferred on strength of the successful completion of tests/assignments and an examination on each of the four 30 credit coursework modules.
ii. The Faculty do make provision for supplementary and special examinations as per General Academic Regulations G26.4 and G26.5.
iii. Every module will be evaluated through a variety of continuous assessment methods (i.e. formative assessments, assignments, summative tests, presentations and/or oral defences where applicable) (from which a year mark will be determined), as well as an examination. A year mark of at least 40% is required for admission to the examination. The year mark and examination mark will each contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50% to pass the module.
iv. Detailed information and/or instructions regarding requirements for year or examination assessment methods and marks are published in the relevant study guides. The calculation of marks may differ from module to module. This information is available in the study guides and students are responsible for familiarising themselves with the way in which marks are calculated in a specific module.
v. No automatic adjustment of final individual marks from 38% and 39% to 40%, or from 48% and 49% to 50%, or from 73% and 74% to 75%, for the purposes of obtaining access to a supplementary examination, or a pass mark, or a distinction may occur.
vi. A student passes a module with distinction if he or she obtains a final mark of at least 75%.
vii. A student may only enrol for a module for a second time when the Student Administration of the Faculty receives a written motivation that is supported by the relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies..

Compliance with degree requirements and degree privileges

Also consult the General Academic Regulation G29.

i. A postgraduate diploma qualification will be conferred on a student only if the student has complied with all the requirements for the particular qualification and has reached the level of competence prescribed for each module that is required for the qualification.
ii. No one is entitled to any privileges pertaining to a postgraduate diploma before the qualification has been conferred on him or her at a graduation ceremony. (In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.)

Pass with distinction

A postgraduate diploma is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded), based on the minimum number of modules prescribed for the qualification in question; and
b. Completed the qualification in the minimum period (i.e. one year for a full-time student and two years for a part-time student) (Also consult the General Academic Regulations G18.1), and
c. Did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Final year

Minimum credits: 120

Core modules

Herd and primary animal health 701 (HAH 701) - Credits: 30.00

Elective modules

African wildlife disease management 701 (AWD 701) - Credits: 30.00
Mechanisms of drug action 702 (FAK 702) - Credits: 30.00
Physiology 701 (FSL 701) - Credits: 30.00
Histology 701 (HTY 701) - Credits: 30.00
Laboratory animal science 702 (LAS 702) - Credits: 30.00
Laboratory diagnostics procedures 703 (LAS 703) - Credits: 30.00
Research ethics for laboratory animal science 704 (LAS 704) - Credits: 30.00
Necropsy technique and interpretation 701 (NTI 701) - Credits: 30.00
Production animal management 701 (PAM 701) - Credits: 30.00
Mechanisms of disease 711 (PAT 711) - Credits: 30.00
Poultry health and nutrition 701 (PVT 701) - Credits: 30.00
Reproductive physiology of animals 702 (RPT 702) - Credits: 30.00
Organic and inorganic toxicology 705 (TOK 705) - Credits: 30.00
Basic veterinary toxicology 706 (TOK 706) - Credits: 30.00
Porcine health, production and nutrition 701 (VKH 701) - Credits: 30.00
Veterinary legislation and policy 702 (VLP 702) - Credits: 30.00
Veterinary milk and meat hygiene 701 (VPH 701) - Credits: 30.00

PGDip in Veterinary Health Administration option State Veterinary Medicine (08220074)

Minimum duration of study	1 year

Programme information

Postgraduate Diplomas are postgraduate specialisation qualifications at NQF-level 8 of at least 120 credits. In the Faculty, it is in general aimed at developing specific areas of knowledge and competence in a chosen field. As per the General Academic Regulations (GC3), a Faculty postgraduate diploma will allow for admission into an appropriate master's degree (as per the minimum entry requirements).

Also consult the General Academic Regulations G16 – G29 and Postgraduate Faculty Regulations.

i. The curriculum consists of four compulsory core and elective theoretical modules of 30 credits each to the total value of 120 credits.
ii. Each module will require a certain amount of contact sessions and the balance may be conducted online. The detail of the sessions for each module is published in the respective study guides.
iii. A minimum number of students could be set (as per the discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a particular module is not reached, the module will not be presented during that academic year but will be offered again in the following academic year. For some modules a maximum number of students who can enrol may be set. The details for each module are published in the study guides.
iv. Students are required to confirm whether a module will be presented in any particular year or not. This

enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Renewal of registration
Also consult the General Academic Regulation G18.
The duration of a postgraduate diploma is one year. Under exceptional circumstances, an extension of one year may be approved by the Deputy Dean: Research and Postgraduate studies.

i. A full-time student who is registered for postgraduate diploma must complete his or her study within one year of registering for the degree.
ii. Part-time students who are registered for a postgraduate diploma may be allowed to complete their studies within two years of first registering for the degree.

Admission requirements

1. Relevant bachelor's degree
   or
   Bachelor of technology degree
   or
   Relevant diploma (NQF-level 7)

Note:

1. An admissions examination may be required
2. Entry into clinical modules will be restricted to persons with the relevant veterinary qualification

Examinations and pass requirements

Also consult the General Academic Regulations G23 – G28.

i. The postgraduate diploma is conferred on strength of the successful completion of tests/assignments and an examination on each of the four 30 credit coursework modules.
ii. The Faculty do make provision for supplementary and special examinations as per General Academic Regulations G26.4 and G26.5.
iii. Every module will be evaluated through a variety of continuous assessment methods (i.e. formative assessments, assignments, summative tests, presentations and/or oral defences where applicable) (from which a year mark will be determined), as well as an examination. A year mark of at least 40% is required for admission to the examination. The year mark and examination mark will each contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50% to pass the module.
iv. Detailed information and/or instructions regarding requirements for year or examination assessment methods and marks are published in the relevant study guides. The calculation of marks may differ from module to module. This information is available in the study guides and students are responsible for familiarising themselves with the way in which marks are calculated in a specific module.
v. No automatic adjustment of final individual marks from 38% and 39% to 40%, or from 48% and 49% to 50%, or from 73% and 74% to 75%, for the purposes of obtaining access to a supplementary examination, or a pass mark, or a distinction may occur.
vi. A student passes a module with distinction if he or she obtains a final mark of at least 75%.
vii. A student may only enrol for a module for a second time when the Student Administration of the Faculty

receives a written motivation that is supported by the relevant head of department and subsequently approved by the Deputy Dean: Research and Postgraduate Studies..

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulation G29.

i. A postgraduate diploma qualification will be conferred on a student only if the student has complied with all the requirements for the particular qualification and has reached the level of competence prescribed for each module that is required for the qualification.
ii. No one is entitled to any privileges pertaining to a postgraduate diploma before the qualification has been conferred on him or her at a graduation ceremony. (In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.)

Pass with distinction

A postgraduate diploma is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded), based on the minimum number of modules prescribed for the qualification in question; and
b. Completed the qualification in the minimum period (i.e. one year for a full-time student and two years for a part-time student) (Also consult the General Academic Regulations G18.1), and
c. Did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Final year

Minimum credits: 120

Core modules

Controlled and notifiable diseases 701 (CND 701) - Credits: 30.00
Veterinary legislation and policy 702 (VLP 702) - Credits: 30.00

Elective modules

Clinical Anatomy 701 (ANG 701) - Credits: 30.00
Anaesthesiology 701 (ANV 701) - Credits: 30.00
Small animal behaviour and welfare 702 (ANW 702) - Credits: 30.00
African wildlife disease management 701 (AWD 701) - Credits: 30.00
Clinical reproduction 701 (CLR 701) - Credits: 30.00
Controlled and notifiable diseases 701 (CND 701) - Credits: 30.00
Non-radiological diagnostic imaging of dogs and cats 701 (DIM 701) - Credits: 30.00
Non-radiological diagnostic imaging of horses 702 (DIM 702) - Credits: 30.00
Non-radiological diagnostic imaging of ruminants 703 (DIM 703) - Credits: 30.00
Radiology: Dogs and cats 705 (DIM 705) - Credits: 30.00
Radiology: Horses 706 (DIM 706) - Credits: 30.00
Radiology: Ruminants 707 (DIM 707) - Credits: 30.00
Diagnostic pathology 701 (DPA 701) - Credits: 30.00
Veterinary epidemiology 701 (EPL 701) - Credits: 30.00
Clinical pharmacology 701 (FAK 701) - Credits: 30.00
Mechanisms of drug action 702 (FAK 702) - Credits: 30.00
Physiology 701 (FSL 701) - Credits: 30.00

Small animal clinical behaviour 710 (GEN 710) - Credits: 30.00
Herd and primary animal health 701 (HAH 701) - Credits: 30.00
Histology 701 (HTY 701) - Credits: 30.00
Clinical pathology 704 (KPA 704) - Credits: 30.00
Clinical pathology 705 (KPA 705) - Credits: 30.00
Laboratory animal science 702 (LAS 702) - Credits: 30.00
Laboratory diagnostics procedures 703 (LAS 703) - Credits: 30.00
Research ethics for laboratory animal science 704 (LAS 704) - Credits: 30.00
Necropsy technique and interpretation 701 (NTI 701) - Credits: 30.00
Ophthalmology 701 (OFM 701) - Credits: 30.00
Production animal management 701 (PAM 701) - Credits: 30.00
Mechanisms of disease 711 (PAT 711) - Credits: 30.00
Poultry health and nutrition 701 (PVT 701) - Credits: 30.00
Reproductive biology 701 (RPT 701) - Credits: 30.00
Reproductive physiology of animals 702 (RPT 702) - Credits: 30.00
Ruminant health and medicine 701 (RUM 701) - Credits: 30.00
Organic and inorganic toxicology 705 (TOK 705) - Credits: 30.00
Basic veterinary toxicology 706 (TOK 706) - Credits: 30.00
Porcine health, production and nutrition 701 (VKH 701) - Credits: 30.00
Veterinary principles of auditing 701 (VLP 701) - Credits: 30.00
Veterinary risk assessment 703 (VLP 703) - Credits: 30.00
Veterinary milk and meat hygiene 701 (VPH 701) - Credits: 30.00

Master's

MMedVet in Anaesthesiology (Coursework) (08251034)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules
Anaesthesiology 800 (ANV 800) - Credits: 270.00
Mini-dissertation: Anaesthesiology 890 (ANV 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Anaesthesiology 800 (ANV 800) - Credits: 270.00
Mini-dissertation: Anaesthesiology 890 (ANV 890) - Credits: 90.00

Curriculum: Final year

Core modules
Anaesthesiology 800 (ANV 800) - Credits: 270.00
Mini-dissertation: Anaesthesiology 890 (ANV 890) - Credits: 90.00

MMedVet in Bovine Medicine (Coursework) (08250059)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult

the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has

been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Bovine health and production 800 (BHP 800) - Credits: 270.00
Mini-dissertation: Bovine health and production 890 (BHP 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Bovine health and production 800 (BHP 800) - Credits: 270.00
Mini-dissertation: Bovine health and production 890 (BHP 890) - Credits: 90.00

Curriculum: Final year

Core modules

Bovine health and production 800 (BHP 800) - Credits: 270.00
Mini-dissertation: Bovine health and production 890 (BHP 890) - Credits: 90.00

MMedVet in Clinical Laboratory Diagnostics (Coursework) (08251035)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.

ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Clinical laboratory diagnostics 800 (KDK 800) - Credits: 270.00
Mini-dissertation: Clinical laboratory diagnostics 890 (KDK 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Clinical laboratory diagnostics 800 (KDK 800) - Credits: 270.00
Mini-dissertation: Clinical laboratory diagnostics 890 (KDK 890) - Credits: 90.00

Curriculum: Final year

Core modules

Clinical laboratory diagnostics 800 (KDK 800) - Credits: 270.00
Mini-dissertation: Clinical laboratory diagnostics 890 (KDK 890) - Credits: 90.00

MMedVet in Diagnostic Imaging (Coursework) (08251036)

Minimum duration of study 3 years

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Curriculum: Year 1

Core modules
Diagnostic imaging 870 (DIM 870) - Credits: 270.00
Mini-dissertation: Diagnostic imaging 890 (DIM 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Diagnostic imaging 870 (DIM 870) - Credits: 270.00
Mini-dissertation: Diagnostic imaging 890 (DIM 890) - Credits: 90.00

Curriculum: Final year

Core modules
Diagnostic imaging 870 (DIM 870) - Credits: 270.00
Mini-dissertation: Diagnostic imaging 890 (DIM 890) - Credits: 90.00

MMedVet in Equine Medicine (Coursework) (08251037)

Minimum duration of study 3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical

training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master’s study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master’s degree consists of a minimum of 90 weeks of clinical training, coursework modules as

well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Curriculum: Year 1

Core modules
Equine medicine 802 (GEN 802) - Credits: 270.00
Mini-dissertation: Equine medicine 892 (GEN 892) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Equine medicine 802 (GEN 802) - Credits: 270.00
Mini-dissertation: Equine medicine 892 (GEN 892) - Credits: 90.00

Curriculum: Final year

Core modules
Equine medicine 802 (GEN 802) - Credits: 270.00
Mini-dissertation: Equine medicine 892 (GEN 892) - Credits: 90.00

MMedVet in Laboratory Animal Science (Coursework) (08251038)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show

sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules
Laboratory animal science 800 (PFK 800) - Credits: 270.00
Mini-dissertation: Laboratory animal science 890 (PFK 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Laboratory animal science 800 (PFK 800) - Credits: 270.00
Mini-dissertation: Laboratory animal science 890 (PFK 890) - Credits: 90.00

Curriculum: Final year

Core modules
Laboratory animal science 800 (PFK 800) - Credits: 270.00
Mini-dissertation: Laboratory animal science 890 (PFK 890) - Credits: 90.00

MMedVet in Ophthalmology (Coursework) (08251039)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:

A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).

The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may

issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Ophthalmology 800 (OFM 800) - Credits: 270.00
Mini-dissertation: Ophthalmology 890 (OFM 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Ophthalmology 800 (OFM 800) - Credits: 270.00
Mini-dissertation: Ophthalmology 890 (OFM 890) - Credits: 90.00

Curriculum: Final year

Core modules

Ophthalmology 800 (OFM 800) - Credits: 270.00
Mini-dissertation: Ophthalmology 890 (OFM 890) - Credits: 90.00

MMedVet in Pathology (Coursework) (08251040)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of

an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.

iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules
Pathology 800 (PAT 800) - Credits: 270.00
Mini-dissertation: Pathology 890 (PAT 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Pathology 800 (PAT 800) - Credits: 270.00
Mini-dissertation: Pathology 890 (PAT 890) - Credits: 90.00

Curriculum: Final year

Core modules
Pathology 800 (PAT 800) - Credits: 270.00
Mini-dissertation: Pathology 890 (PAT 890) - Credits: 90.00

MMedVet in Pharmacology (Coursework) (08251042)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show

sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

MMedVet in Pig Herd Health (Coursework) (08251043)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in

the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master’s study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for

exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Pig herd health 800 (VKH 800) - Credits: 270.00

Mini-dissertation: Pig herd health 890 (VKH 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Pig herd health 800 (VKH 800) - Credits: 270.00
Mini-dissertation: Pig herd health 890 (VKH 890) - Credits: 90.00

Curriculum: Final year

Core modules

Pig herd health 800 (VKH 800) - Credits: 270.00
Mini-dissertation: Pig herd health 890 (VKH 890) - Credits: 90.00

MMedVet in Poultry Diseases (Coursework) (08251044)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-

dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Poultry health and production 800 (PHP 800) - Credits: 270.00
Mini-dissertation: Poultry diseases 890 (PVT 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Poultry health and production 800 (PHP 800) - Credits: 270.00
Mini-dissertation: Poultry diseases 890 (PVT 890) - Credits: 90.00

Curriculum: Final year

Core modules

Poultry health and production 800 (PHP 800) - Credits: 270.00
Mini-dissertation: Poultry diseases 890 (PVT 890) - Credits: 90.00

MMedVet in Reproduction (Coursework) (08251045)

Minimum duration of study	3 years

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics

committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules
Reproduction 800 (GSK 800) - Credits: 270.00
Mini-dissertation 891 (GSK 891) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Reproduction 800 (GSK 800) - Credits: 270.00
Mini-dissertation 891 (GSK 891) - Credits: 90.00

Curriculum: Final year

Core modules
Reproduction 800 (GSK 800) - Credits: 270.00
Mini-dissertation 891 (GSK 891) - Credits: 90.00

MMedVet in Small Animal Medicine (Coursework) (08251046)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant

graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Small animal medicine 803 (GEN 803) - Credits: 270.00
Mini-dissertation: Small animal medicine 893 (GEN 893) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Small animal medicine 803 (GEN 803) - Credits: 270.00
Mini-dissertation: Small animal medicine 893 (GEN 893) - Credits: 90.00

Curriculum: Final year

Core modules

Small animal medicine 803 (GEN 803) - Credits: 270.00
Mini-dissertation: Small animal medicine 893 (GEN 893) - Credits: 90.00

MMedVet in Small Animal Surgery (Coursework) (08251047)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional;

dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.

ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Surgery 803 (CHV 803) - Credits: 270.00
Mini-dissertation: Small animal surgery 892 (CHV 892) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Surgery 803 (CHV 803) - Credits: 270.00
Mini-dissertation: Small animal surgery 892 (CHV 892) - Credits: 90.00

Curriculum: Final year

Core modules
Surgery 803 (CHV 803) - Credits: 270.00
Mini-dissertation: Small animal surgery 892 (CHV 892) - Credits: 90.00

MMedVet in Small Stock Herd Health (Coursework) (08251048)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to

specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should

then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional

master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules
Small stock herd health 800 (KKS 800) - Credits: 270.00
Mini-dissertation: Small stock herd health 890 (KKS 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Small stock herd health 800 (KKS 800) - Credits: 270.00
Mini-dissertation: Small stock herd health 890 (KKS 890) - Credits: 90.00

Curriculum: Final year

Core modules
Small stock herd health 800 (KKS 800) - Credits: 270.00
Mini-dissertation: Small stock herd health 890 (KKS 890) - Credits: 90.00

MMedVet in Surgery option Equine Surgery (Coursework) (08251049)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant

graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Surgery 804 (CHV 804) - Credits: 270.00
Mini-dissertation: Equine surgery 890 (CHV 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules

Surgery 804 (CHV 804) - Credits: 270.00
Mini-dissertation: Equine surgery 890 (CHV 890) - Credits: 90.00

Curriculum: Final year

Core modules

Surgery 804 (CHV 804) - Credits: 270.00
Mini-dissertation: Equine surgery 890 (CHV 890) - Credits: 90.00

MMedVet in Toxicology (Coursework) (08251050)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty’s SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional;

dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.

ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Toxicology 800 (TOK 800) - Credits: 270.00
Mini-dissertation: Toxicology 890 (TOK 890) - Credits: 90.00
Research methodology 813 (VRM 813) - Credits: 0.00

Curriculum: Year 2

Core modules
Toxicology 800 (TOK 800) - Credits: 270.00
Mini-dissertation: Toxicology 890 (TOK 890) - Credits: 90.00

Curriculum: Final year

Core modules
Toxicology 800 (TOK 800) - Credits: 270.00
Mini-dissertation: Toxicology 890 (TOK 890) - Credits: 90.00

MMedVet in Veterinary Public Health (Coursework) (08251052)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.

iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission.

The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

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The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of

ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Research methodology 813 (VRM 813) - Credits: 0.00
Veterinary public health 800 (VVD 800) - Credits: 270.00
Mini-dissertation: Veterinary public health 890 (VVD 890) - Credits: 90.00

Curriculum: Year 2

Core modules

Veterinary public health 800 (VVD 800) - Credits: 270.00
Mini-dissertation: Veterinary public health 890 (VVD 890) - Credits: 90.00

Curriculum: Final year

Core modules

Veterinary public health 800 (VVD 800) - Credits: 270.00
Mini-dissertation: Veterinary public health 890 (VVD 890) - Credits: 90.00

MMedVet in Wildlife Diseases (Coursework) (08251053)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G30 – G41.

A master's degree in Veterinary Medicine (MMedVet) is a clinical specialty degree at NQF-level 9 of 360 credits to be completed in 3 years of full-time study as part of a residential training program. The training program consists of clinical work (at least 90 weeks of supervised clinical training), coursework, culminating in a multi-component examination (270 credits) and a research project resulting in a mini-dissertation (of 90 credits) and subsequent publications as required for SAVC registration as a specialist.

i. The MMedVet degree may entitle the holder to registration as a specialist with the South African Veterinary Council together with other requirements as determined by Council. Candidates are encouraged to review current Council guidelines on specialist registration.
ii. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration, or with approval from the SAVC, conduct clinical practice in specified facilities and based on a programme approved by the supervisor.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) veterinary degree
2. Applicable experience as a veterinarian of at least two years, or training at least one year in the specific field as an intern at a recognised training facility
3. Registration as a veterinanian with the South African Veterinary Council (SAVC) or authorisation by the SAVC to be enrolled for Master of Veterinary Medicine studies

Note: An entrance examination may be required

Additional requirements

1. The candidate will be required to work full-time at the faculty in the field of specialisation under supervision of an approved supervisor for the required duration

Notification

While the Master of Veterinary Medicine is an advanced professional programme equivalent to specialist certification, registration to practice as a specialist is controlled by the SAVC or international equivalent. These bodies may have additional requirements for registration that are not university requirements. Please check their requirements as well

Examinations and pass requirements

Also consult the General Academic Regulations G35 – 38 (coursework) and G39 – G40 (mini-dissertation).

The MMedVet is conferred by virtue of completion of a minimum of 90 weeks of clinical training, examination in specialist module, and a mini-dissertation.

Examination in specialist module: Also consult the Faculty's SOP MMedVet examinations guidelines as reflected in the study guides.

The examination(s) in the specialist field of study may only be taken on completion of the minimum clinical training which includes successful presentation of seminars. Special permission will have to be obtained from the HOD if the examination is conducted at an earlier stage. The examination will consist of a theoretical component (the addition of an oral exam is optional and dependant on the discipline) and a practical component (optional; dependant on the discipline). The nature and duration of the specialist module's examination(s), which must fully test the theoretical knowledge as well as the practical skills of the student, is determined by the head of department in which the chosen field of study is presented.

A minimum examination mark of 50% is required in each of the theoretical and practical sections of the specialist module.

The Faculty regulations do provide for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5; however, only after an additional period of training (theoretical and/or practical) as prescribed has been completed.

Note: Students who intend applying for membership of a specialist college abroad later on, should bear in mind that many of these colleges require a minimum examination mark and a final mark of at least 60% for admission. The student bears the responsibility of ensuring that they familiarise themselves with the relevant college requirements and regulations that might be applicable.

Mini-dissertation:
A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the mini-dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The mini-dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulation G39.12.1).
The average of the separate marks awarded by the two examiners, constitutes the final mark for the mini-dissertation.

Before or on submission of the final copy of the dissertation, a student must submit a draft first-author research article for publication to the supervisor (Also consult the General Academic Regulations G39 - G40). The draft article should be based on the research study undertaken (and as approved by the Faculty Research Ethics committee) during the master's study, and be approved by the supervisor(s) concerned. The supervisor should then have the opportunity to take the paper through all the processes of revision and resubmission as may be necessary and/or appropriate in order to achieve publication. The affiliation of both the student and the supervisor(s) should be listed as the University of Pretoria.

Research information

Also consult the General Academic Regulation G38.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show

sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The MMedVet master's degree consists of a minimum of 90 weeks of clinical training, coursework modules as well as a mini-dissertation of 90 credits. The basic requirements and Faculty expectations of an MMedVet mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The MMedVet master's degree mini-dissertation is based on a research project or related research projects (which need not be original), planned and written down by the student within the theme of the chosen specialization. (Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.) The student may use appropriate research done previously, to add to the writing of the mini-dissertation.

Research undertaken by an MMedVet master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees may consider and approve or reject research proposals in accordance with the guidelines of the general policy.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A professional master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for the prescribed coursework module, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A professional master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a professional master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

A professional master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained at least a final mark of 75% (not rounded), based on the module prescribed for the professional master's degree in question; and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time. (i.e. study while working full-time).

Curriculum: Year 1

Core modules

Research methodology 813 (VRM 813) - Credits: 0.00
Veterinary wildlife studies 800 (WLS 800) - Credits: 270.00
Mini-dissertation: Wildlife diseases 890 (WSK 890) - Credits: 90.00

Curriculum: Year 2

Core modules

Veterinary wildlife studies 800 (WLS 800) - Credits: 270.00
Mini-dissertation: Wildlife diseases 890 (WSK 890) - Credits: 90.00

Curriculum: Final year

Core modules

Veterinary wildlife studies 800 (WLS 800) - Credits: 270.00
Mini-dissertation: Wildlife diseases 890 (WSK 890) - Credits: 90.00

MSc in Veterinary Science (08251119)

Minimum duration of study	1 year

Programme information

Also consult the General Academic Regulations G39 and PG Faculty regulations.

Master's degree by dissertation is a research master's degree that requires a high level of theoretical engagement and in some cases, demonstration of the ability to relate knowledge to a range of contexts for professional practice. It must contain a research component at NQF level 9 (to the value of 180 credits), culminating in the acceptance of a dissertation. A research master's degree is a full research programme designed to develop research skills which amongst others, allows the graduate to progress seamlessly to the research demands of a PhD.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) degree
   or
   Relevant four-year Bachelor of Science in Agriculture degree
   or
   Relevant Bachelor of Science honours degree
   or
   relevant postgraduate diploma (on NQF-level 8)

Note:

1. An admissions examination may be required
2. The candidate may be required to submit proof of experience in their selected field of study

Examinations and pass requirements

Examination and pass requirements

Also consult the General Academic Regulations G39.

The degree is conferred by virtue of the successful completion of a dissertation and a draft first-author research article.

A dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The dissertation will be evaluated by two examiners (for the appointment of the examination panel, consult the General Academic Regulations G39.12.1).

The average of the separate marks awarded by the two examiners, constitutes the final mark for the dissertation.

Compliance with degree requirements
Also consult the General Academic Regulation G40.

i. A master's degree by dissertation will be conferred on a student only after the successful completion of all requirements of each component of the relevant degree programme, including the submission and successful evaluation of a research-based dissertation, draft publication, and compliance with all the requirements for the particular programme.
ii. A master's degree is not deemed to be completed if the electronic version of the dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Research information

Retention and preservation of research data
Also consult the General Academic Regulations G39.

The data generated through the research conducted must be managed in accordance with the University of Pretoria's Research Data Management policy and the related Research Data Management procedure.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the master's study must remain confidential, the supervisor will be required to submit an application in writing to Faculty Postgraduate and Research committee setting out the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Also consult the General Academic Regulation G39.

All students should register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing). If a student has already completed a similar module for a previous degree (within the past five years) and can show sufficient evidence of competence in research skills required at postgraduate level, a student may apply for exemption from this module.

The main objective of master's degree studies is to enable the candidate to undertake research in all its semi-fractions, under supervision. The basic requirements and Faculty expectations of an MSc are:

i. The candidate should show the ability to undertake a research project and write up the project.
ii. The candidate does not need to make an original contribution to science, but still show the ability to do research.
iii. Explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic is determined in consultation with the supervisor and the relevant head of department, and the research project(s)/ dissertation that follow, must be approved according to Faculty guidelines.

Research undertaken by a master's student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/ approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Pass with distinction

A master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained a mark of 75% or above for the research-based dissertation; and
b. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice the prescribed minimum years of study in relation to postgraduate students who study part-time.

Curriculum: Final year

Students must select the dissertation module relevant to their research field.

Fundamental modules

Research methodology 813 (VRM 813) - Credits: 0.00

Core modules

Dissertation: Veterinary tropical diseases 801 (VWE 801) - Credits: 180.00
Dissertation: Anatomy and physiology 802 (VWE 802) - Credits: 180.00
Dissertation: Companion animal clinical studies 803 (VWE 803) - Credits: 180.00
Dissertation: Paraclinical sciences 804 (VWE 804) - Credits: 180.00
Dissertation: Production animal studies 805 (VWE 805) - Credits: 180.00

MSc in Veterinary Science option Veterinary Epidemiology (Coursework) (08251029)

Minimum duration of study	2 years

Programme information

The curriculum consists of six compulsory core modules (EPL 851, EPL 852, EPL 853, EPL 855, EPL 856 and EPL 895 for 10, 20, 20, 5, 5 and 15 credits, respectively), as well as a mini-dissertation (90 credits). In addition, students should elect any appropriate module on 800 level to the value of at least 15 credits (to make up the total of 90 credits for the coursework), approved by the head of department. Students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

Also consult the General Academic Regulations G30 – G41 and Faculty regulations.

A coursework master's degree requires a high level of theoretical engagement and intellectual independence, and in some cases demonstration of the ability to relate knowledge to a range of contexts for professional practice.

The coursework master's degree curriculum consists of compulsory core and elective theoretical modules (90 credits) as well as a mini-dissertation (90 credits).

Also consult the General Academic Regulations G35 - 38.

i. Each module requires a certain amount of contact sessions and the balance may be presented online. The detail of the contact sessions for each module is published in the study guides.
ii. A minimum number of students could be prescribed (as per the discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a particular module is not reached, the module will not be presented in that academic year but will be offered again in the next academic year. For prescribed modules a maximum number of students who can enrol may be set. The details for each module are published in the study guides.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) degree
   or
   Relevant four-year Bachelor of Science in Agriculture degree
   or
   Relevant Bachelor of Science honours degree
   or
   relevant postgraduate diploma (on NQF-level 8)

Note:

1. An admissions examination may be required
2. The candidate may be required to submit proof of experience in their selected field of study

Examinations and pass requirements

The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.

The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5.

For the coursework, a minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.

If a student fails a coursework module, he/she will have to repeat the module the next year. A module may not

be repeated more than twice. Please refer to other specific conditions stipulated in the study guide of each module.

Examinations and pass requirements related to mini-dissertations

Also consult the General Academic Regulations G39 for Preparation and submission of dissertation, Technical editing of the dissertation, Evaluation of the dissertation, Appointment of the examination panel, Criteria for evaluation, Examiners' reports, Finalisation of reports.

A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The dissertation will be examined by one internal and one external examiner as stipulated by the UP regulations. The average mark of the two separate marks awarded by the examiners constitutes the final mark for the mini-dissertation.

The minimum pass mark is 50%. The Dean, on the recommendation of the relevant head of the department, may permit a candidate who has failed, to submit an amended mini-dissertation for final adjudication.

Compliance with degree requirements

Also consult the General Academic Regulation G40.

i. A coursework master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for each of the prescribed coursework modules, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A coursework master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a coursework master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Research information

Retention and preservation of research data

Also consult the General Academic Regulations G39.

The data generated through the research conducted must be managed in accordance with the University of Pretoria's Research Data Management policy and the related Research Data Management procedure.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the master's study must remain confidential, the supervisor will be required to submit an application in writing to Faculty Postgraduate and Research committee setting out the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the

embargo, and the information must be shared with the Department of Library Services.

Pass with distinction

Qualification with distinction: A coursework master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded) in the coursework modules needed to comply with degree requirements, and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time (i.e. study while working full-time).
d. In the case of a coursework master's degree, did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Year 1

Fundamental modules

Research methodology 813 (VRM 813) - Credits: 0.00

Core modules

Basic veterinary epidemiology 851 (EPL 851) - Credits: 10.00
Biostatistics in veterinary science 852 (EPL 852) - Credits: 20.00
Analytical veterinary epidemiology 853 (EPL 853) - Credits: 20.00
Animal health information management 855 (EPL 855) - Credits: 5.00
Scientific reasoning in veterinary epidemiology 856 (EPL 856) - Credits: 5.00
Advanced topics in veterinary epidemiology 859 (EPL 859) - Credits: 15.00

Curriculum: Final year

Core modules

Mini-dissertation: Veterinary epidemiology 891 (EPL 891) - Credits: 90.00

MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework) (08251033)

Minimum duration of study	2 years

Programme information

Also consult the General Academic Regulations G30 – G41 and Faculty regulations.

There will **only be an intake of new students every second year.**

It remains the applicant's responsibility to ensure that the degree they wish to apply for, will indeed be presented.

A coursework master's degree requires a high level of theoretical engagement and intellectual independence, and in some cases demonstration of the ability to relate knowledge to a range of contexts for professional

practice.

The coursework master's degree curriculum consists of compulsory core and elective theoretical modules (90 credits) as well as a mini-dissertation (90 credits).

The curriculum consists of four compulsory core modules (NLB800, NLB810, WLS810 and WLS811 for 20, 20, 20 and 15 credits, respectively) and a choice of one of two elective modules (WLS812 or WLS813 for 15 credits each), as well as a mini-dissertation (90 credits). In addition, students are also permitted to elect any other appropriate module on 800 level to the value of 15 credits (instead of choosing one of the two electives offered in the programme), approved by the head of department. Students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

The first year is dedicated to coursework modules whilst the second year is dedicated to the research work.

Also consult the General Academic Regulations G35 - G38.

i. Each module will require a certain amount of contact sessions and the rest may be online. The detail of the contact sessions for each module is published in the study guides.
ii. A minimum number of students could be set (as per discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a certain module is not reached, the module will not be presented in that academic year but will be offered again in the following academic year. For some modules a maximum number of students who can enrol might be set. The details for each module are published in the study guides.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) degree
   or
   Relevant four-year Bachelor of Science in Agriculture degree
   or
   Relevant Bachelor of Science honours degree
   or
   relevant postgraduate diploma (on NQF-level 8)

Note:

1. An admissions examination may be required
2. The candidate may be required to submit proof of experience in their selected field of study

Additional requirements

In cases where web based/online modules are offered, basic computer skills are required in order to successfully participate in the degree programme.

The programme is limited to minimum of 4 students and maximum of 12 students for enrolment and due to the increasing interest in the programme, all applicants will be subjected to an entry test.

All international applicants whose first language is not English may be required to pass a proficiency test in English (TOEFL). Application and more information at www.ets.org/toefl.

Postgraduate applicants who have completed any foreign qualification must have all their previous post- school qualifications evaluated by the South African Qualification Authority (SAQA) before applying for postgraduate studies at the University of Pretoria: www.saqa.org.za.

International requirements

International students have to ensure they are aware of all aspects pertaining to them to study at the University of Pretoria which can be found at www.up.ac.za/isd.

Examinations and pass requirements

The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.

The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5.

For the coursework, a minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.

The following also applies to the coursework modules:

1. Failure of certain basic core modules (NLB 810, NLB 800, WLS 810 and WLS 811) in the 1st semester of the 1st year will lead to the student not being able to proceed with other modules and the student will have to repeat the modules when they are offered again (Note: The 1st year of entry is every 2 years). This is stipulated in the study guide of each of the modules.
2. These students will be offered a special examination if they meet the minimum requirements, and an additional extra-ordinary examination if they meet the requirements stipulated in the study guide.
3. If the student successfully completed VRM 813 in year 1, he/she may continue with the research project in year 2.

Examinations and pass requirements related to mini-dissertations

Also consult the General Academic Regulation G39 for Preparation and submission of dissertation, Technical editing of the dissertation, Evaluation of the dissertation, Appointment of the examination panel, Criteria for evaluation, Examiners' reports, Finalisation of reports.

A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The dissertation will be examined by one internal and one external examiner as stipulated by the UP regulations. The average mark of the two separate marks awarded by the examiners constitutes the final mark for the mini-dissertation.

The minimum pass mark is 50%. The Dean, on the recommendation of the relevant head of the department, may permit a candidate who has failed, to submit an amended mini-dissertation for final adjudication.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulations G40.

i. A coursework master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for each of the prescribed coursework modules, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A coursework master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a coursework master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Research information

Also consult the General Academic Regulation G39.

The coursework master's degree consists of coursework modules as well as a mini-dissertation which is divided equally between the research and coursework as 90 credits each.

In addition to the coursework modules, students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

It should be emphasized that a mini-dissertation is not a complete research-based master's dissertation and is of limited scope and extent. The content should cover enough work for a case report or short communication. The basic requirements and Faculty expectations of a coursework master's degree mini-dissertation are:

1. The student should show the ability to undertake a research project and write up the project.
2. The student does not need to make an original contribution to science, but still show the ability to do research.
3. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

Candidates must submit a mini-dissertation which deals with an applied field of study. The topic is determined in consultation with the supervisor and the relevant head of department, and must be approved according to Faculty guidelines. The mini-dissertation is based on an applied research project or related research projects which need not be original), planned and reported by the candidate. Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.

Research undertaken is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Pass with distinction

Qualification with distinction: A coursework master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded) in the coursework modules needed to comply with degree requirements, and
b. Obtained a final mark of 75% or above for the mini-dissertation; and

c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time (i.e. study while working full-time).
d. In the case of a coursework master's degree, did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Year 1

Electives:

Choose 1 elective to the value of 15 credits from the list or any appropriate 800-level module, relevant to the field of study.

Fundamental modules

Research methodology 813 (VRM 813) - Credits: 0.00

Core modules

Wildlife management and production 800 (NLB 800) - Credits: 20.00
Wildlife ecology 810 (NLB 810) - Credits: 20.00
Wildlife health advanced 810 (WLS 810) - Credits: 20.00
Transfrontier parks and conservation 811 (WLS 811) - Credits: 15.00

Elective modules

Wildlife health introduction 812 (WLS 812) - Credits: 15.00
Wildlife veterinary specific 813 (WLS 813) - Credits: 15.00

Curriculum: Final year

Core modules

Mini-dissertation: Wildlife health, ecology and management 890 (WLS 890) - Credits: 90.00

MSc specialising in Global One Health (Coursework) (08251032)

Minimum duration of study	2 years

Programme information

Also consult the General Academic Regulations G30–G41 and Faculty regulations.

This 2-year master's programme is offered by the Department of Veterinary Tropical Diseases of the University of Pretoria (South Africa) in collaboration with the Institute of Tropical Medicine in Belgium.
This degree is offered as a combination of e-learning, face-to-face teaching and a compulsory collaborative induction/field-workshop. It has the following components:

- A two week compulsory induction/field-workshop
- Four compulsory core modules (AHE 805, OHB 810, EPL 801 and VRM 815). Three modules to be taken in the first semester of the first year and the fourth module to be taken during the second semester of the first year.
- Elective modules: Elect modules to the value of 35 credits from the list of elective modules below, and ensure that the following rules are adhered to:
  1. **Choose one module from the following skills-based modules:** ASR 813, AVB 820, AVH 815, AVV 820,

EPL 803, EPL 804, TCK 815 and VMB 820.

2. **Choose two modules from the following list of theory-based modules:** AHE 814, AHE 815, AHE 816, AHE 820, GVD 815, OHB 812, OHB 815, OHB 816 and TBD 815.

- Mini-dissertation (90 credits).

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) degree **or** relevant four-year Bachelor of Science in Agriculture degree **or** relevant Bachelor of Science honours degree **or** relevant postgraduate diploma (on NQF level 8)

Note:

1. An admissions examination may be required
2. The candidate may be required to submit proof of two years' professional experience in their selected field of study

Additional requirements

According to the Bologna Bachelor-Master structure, a master's degree is required to register at ITM. (Note: A four-year BSc degree in the South African context is equivalent to a master's degree in the Bologna system). Two years of professional experience might be required in certain cases. It remains the prerogative of the head of department (UP) or course director (ITM) to require, in addition to the entrance requirements already mentioned, the successful completion of an admissions test before registration. A student may also be required to pass a proficiency test in English (TOEFL) at an acceptable level. The web-based/online nature of the modules requires basic computer skills in order to successfully participate in the degree programme.

Students are required to confirm whether a module will be presented in any particular year.

Examinations and pass requirements

A minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.

The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.

If a student fails a module, the student will have to repeat the module the following year. A module cannot be repeated more than twice.

Research information

Also consult the General Academic Regulation G39.
The coursework master's degree consists of coursework modules as well as a mini-dissertation which is divided equally between the research and coursework as 90 credits each. It should be emphasised that a mini-dissertation is not a complete research-based master's dissertation and is of limited scope and extent. The content should cover enough work for a case report or short communication. The basic requirements and Faculty expectations of a coursework master's degree mini-dissertation are:

1. The student should show the ability to undertake a research project and write up the project.

2. The student does not need to make an original contribution to science, but still show the ability to do research.
3. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

Candidates must submit a mini-dissertation which deals with an applied field of study. The topic is determined in consultation with the supervisor and the relevant head of department, and must be approved according to Faculty guidelines. The mini-dissertation is based on an applied research project or related research projects which need not be original), planned and reported by the candidate. Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.
Research undertaken is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Examinations and pass requirements
The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.
The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5.
For the coursework, a minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.
In addition to what is set out above, the following also applies to the coursework modules:

1. A student that fails two or more core modules (AHE 805, OHB 810, EPL 802 and VRM 815) during the first semester of year 1, will not be allowed to continue in the MSc programme.
2. If a student fails a coursework module, he/she will have to repeat the module the following year. A module cannot be repeated more than twice.

Examinations and pass requirements related to mini-dissertations
Also consult the General Academic Regulation G39 for Preparation and submission of dissertation, Technical editing of the dissertation, Evaluation of the dissertation, Appointment of the examination panel, Criteria for evaluation, Examiners' reports, Finalisation of reports. A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 30 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and cosupervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).
If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.
In addition to what is set out above, the mini-dissertation will include an oral examination conducted face to face or via video conference. The oral examining panel will include an examiner from each institute (excluding the supervisor). A mark constituting a maximum of 10% of the final mini-dissertation mark must be granted. The dissertation will be examined by one internal and one external examiner as stipulated by the UP regulations; this mark will constitute 90% of the final mini-dissertation mark.
The minimum pass mark is 50%. The Dean, on the recommendation of the relevant head of the department, may

permit a candidate who has failed, to submit an amended mini dissertation for final adjudication.

Retention and preservation of research data
Also consult the General Academic Regulations G39.
The data generated through the research conducted must be managed in accordance with the University of Pretoria's Research Data Management policy and the related Research Data Management procedure.
Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the master's study must remain confidential, the supervisor will be required to submit an application in writing to Faculty Postgraduate and Research committee setting out the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulations G40.

1. A coursework master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for each of the prescribed coursework modules, the submission and successful evaluation of the mini-dissertation or other research relevant output, and compliance with all the requirements for the particular programme.
2. A coursework master's degree is not deemed to be completed if the electronic version of the minidissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
3. No one is entitled to any privileges pertaining to a coursework master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Pass with distinction

Qualification with distinction: A coursework master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded) in the coursework modules needed to comply with degree requirements, and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time (i.e. study while working full-time).
d. In the case of a coursework master's degree, did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Year 1

Induction: A two-week orientation at DVTD and Hans Hoheisen. Will include sessions on key computing, library, study and research skills. Aspects of the Research Methodology and Introduction to One Health (2 of the 4 ECTS) modules will also be presented (face-to-face) during this time.
Elective modules: Choose modules to the minimum value of 35 credits from the list of elective modules below

ensuring that the following is adhered to:
Theory-based elective modules:
Choose two modules from the following list of theory-based modules: AHE 812, AHE 813, AHE 814, AHE 815, AHE 816, EPL 803,GVD 815, OHB 815, OHB 816 and TBD 815.
Skills-based elective modules:
In consultation with the HED and study leader, a maximum of two skills-based elective modules be may selected from the following: ASR 813, AVB 820, AVH 815, AVV 820, EPL 804, TCK 815 and VMB 820.

Core modules

Introduction to zoonosis 805 (AHE 805) - Credits: 15.00
Basic epidemiology 801 (EPL 801) - Credits: 12.00
Introduction to One Health 810 (OHB 810) - Credits: 18.00
Research methodology 815 (VRM 815) - Credits: 10.00

Elective modules

Advanced One Health: policy 815 (AHE 815) - Credits: 12.00
Laboratory diagnostics 820 (AHE 820) - Credits: 12.00
Surveillance and survey methodology 822 (AHE 822) - Credits: 10.00
Applied serology 813 (ASR 813) - Credits: 10.00
Applied bacteriology 820 (AVB 820) - Credits: 10.00
Applied helminthology 815 (AVH 815) - Credits: 12.00
Applied virology 820 (AVV 820) - Credits: 10.00
Advanced epidemiology 803 (EPL 803) - Credits: 12.00
Applied epidemiology 804 (EPL 804) - Credits: 12.00
General vector-borne diseases 815 (GVD 815) - Credits: 12.00
Globalisation and health 812 (OHB 812) - Credits: 15.00
Outbreak investigations and research 815 (OHB 815) - Credits: 15.00
Molecular data for infectious diseases 816 (OHB 816) - Credits: 15.00
Selected tick identification 815 (TCK 815) - Credits: 10.00
Applied molecular biology 820 (VMB 820) - Credits: 10.00

Curriculum: Final year

Core modules

Mini-dissertation 895 (AHE 895) - Credits: 90.00

MSc specialising in Veterinary Industrial Pharmacology (Coursework) (08251018)

Minimum duration of study	2 years

Programme information

Also consult the General Academic Regulations G30 – G41 and Faculty regulations.

There will **only be an intake of new students every second year.**

It remains the applicant’s responsibility to ensure that the degree they wish to apply for, will indeed be presented.

A coursework master’s degree requires a high level of theoretical engagement and intellectual independence,

and in some cases demonstration of the ability to relate knowledge to a range of contexts for professional practice.

This programme is offered as a course-work master's programme with modules in the advanced fundamentals of pharmacology and regulatory pharmacology. The course is designed to assist persons working in the field of regulatory veterinary pharmacology and covers training in the fundamentals (pharmacokinetics theory, basic pharmaceutics and pharmacodynamics theory), pharmacokinetic modelling, pharmacodynamics data analysis, veterinary legislation; preclinical toxicology, dossier evaluation; good laboratory practice, good clinical practice and good manufacturing practice.

The coursework master's degree curriculum consists of compulsory core and elective theoretical modules (90 credits) as well as a mini-dissertation (90 credits).

The curriculum consists of two compulsory core modules (FAK 876 and VIP 800 for 40 and 50 credits, respectively) as well as a mini-dissertation (VIP 890 for 90 credits). In addition, students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

Note: The first year is dedicated to coursework modules whilst the second year is dedicated to the research work.

Also consult the General Academic Regulations G35 - G38.

i. Each module will require a certain amount of contact sessions and the balance may be presented online. The detail of the contact sessions for each module is published in the study guides.
ii. A minimum number of students could be set (as per discretion of the module coordinator) for the presentation of any given module. When the required minimum number of students for a certain module is not reached, the module will not be presented in that academic year but will be offered again in the following academic year. For some modules a maximum number of students who can enrol might be set. The details for each module are published in the study guides.
iii. Students are required to confirm whether a module will be presented in any particular year. This enquiry should be directed to the Faculty PG Student Administration co-ordinator according to the syllabi information provided in the list of modules in this yearbook.

Admission requirements

1. Bachelor of Veterinary Science (or equivalent) degree
   or
   Relevant four-year Bachelor of Science in Agriculture degree
   or
   Relevant Bachelor of Science honours degree
   or
   relevant postgraduate diploma (on NQF-level 8)

Note:

1. An admissions examination may be required
2. The candidate may be required to submit proof of experience in their selected field of study

Additional requirements

- In cases where web based/online modules are offered, basic computer skills are required in order to

successfully participate in the degree programme.
- In certain cases, it remains the prerogative of the head of department to require, in addition to the entrance requirements, the successful completion of an admissions test before registration.
- All international applicants whose first language is not English may be required to pass a proficiency test in English (TOEFL). Application and more information www.ets.org/toefl.
- Postgraduate applicants who have completed any foreign qualification must have all their previous post- school qualifications evaluated by the South African Qualification Authority (SAQA) before applying for postgraduate studies at the University of Pretoria: www.saqa.org.za

Examinations and pass requirements

The MSc coursework degree is conferred by virtue of the successful completion of examinations on the coursework modules and a mini-dissertation.

The Faculty does make provision for supplementary and special examinations as per General Academic Regulations G37.4 and G37.5.

For the coursework, a minimum examination mark of 50% is required in each of the modules where a semester or year mark is not required. However, where a semester or year mark is required, the latter will contribute 50% to the final mark. A subminimum of 40% is required in the examination and a final mark of at least 50 % to pass the module. Instructions regarding requirements for semester, year or examination marks are published in the study guides, for the specific attention of candidates.

In addition to what is set out above, the following also applies to the coursework modules:

i. Failure of either FAK 876 or VIP 800 core modules, the student will have to repeat the modules when they are offered again. (Note: The 1st year of entry is every 2 years). This is stipulated in the study guide of each of the modules.
ii. These students will be offered a special examination if they meet the minimum requirements, and an additional extra-ordinary examination if they meet the requirements stipulated in the study guide.

Additional examinations and pass requirements:
In addition to what is set out above under “Examinations and pass requirements”, the following also applies

i. Failure of either FAK 876 or VIP 800 core modules, the student will have to repeat the modules when they are offered again (Note: The 1st year of entry is every 2 years).
ii. Students will be offered a special examination if they meet the minimum requirements, and an additional extra-ordinary examination if they meet the requirements stipulated in the study guide.
iii. If the student successfully completed VRM 813 in year 1, he/she may continue with the research project in year 2.

Examinations and pass requirements related to mini-dissertations
Also consult the General Academic Regulation G39 for Preparation and submission of dissertation, Technical editing of the dissertation, Evaluation of the dissertation, Appointment of the examination panel, Criteria for evaluation, Examiners’ reports, Finalisation of reports.

A mini-dissertation is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G39 with regard to the submission and technical editing of the thesis).

If a mini-dissertation is submitted after the due date specified above, the student takes the risk that the examination of the dissertation may be delayed and the student will not be considered for the graduation

concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The dissertation will be examined by one internal and one external examiner as stipulated by the UP regulations. The average mark of the two separate marks awarded by the examiners constitutes the final mark for the mini-dissertation.

The minimum pass mark is 50%. The Dean, on the recommendation of the relevant head of the department, may permit a candidate who has failed, to submit an amended mini-dissertation for final adjudication.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulations G40.

i. A coursework master's degree, will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the achievement of a pass mark for each of the prescribed coursework modules, the submission and successful evaluation of the mini-dissertation or other research-relevant output, and compliance with all the requirements for the particular programme.
ii. A coursework master's degree is not deemed to be completed if the electronic version of the mini-dissertation has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a coursework master's degree before the qualification has been conferred on him or her at a graduation ceremony. In respect of professional registrations, faculties may issue confirmation letters to the relevant professional bodies prior to the graduation ceremonies.

Research information

Also consult the General Academic Regulation G39.

The coursework master's degree consists of coursework modules as well as a mini-dissertation which is divided equally between the research and coursework as 90 credits each.

In addition to the coursework modules, students should also register for (and pass) the module Research methodology (VRM 813) (non-credit-bearing).

It should be emphasized that a mini-dissertation is not a complete research-based master's dissertation and is of limited scope and extent. The content should cover enough work for a case report or short communication. The basic requirements and Faculty expectations of a coursework master's degree mini-dissertation are:

i. The student should show the ability to undertake a research project and write up the project.
ii. The student does not need to make an original contribution to science, but still show the ability to do research.
iii. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

Candidates must submit a mini-dissertation which deals with an applied field of study. The topic is determined in consultation with the supervisor and the relevant head of department, and must be approved according to Faculty guidelines. The mini-dissertation is based on an applied research project or related research projects which need not be original), planned and reported by the candidate. Assistance with statistical processing, applied specialised procedures, etc. is allowed, but must be acknowledged.

Research undertaken is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Retention and preservation of research data
Also consult the General Academic Regulations G39.

The data generated through the research conducted must be managed in accordance with the University of Pretoria's Research Data Management policy and the related Research Data Management procedure.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the master's study must remain confidential, the supervisor will be required to submit an application in writing to Faculty Postgraduate and Research committee setting out the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Pass with distinction

Qualification with distinction: A coursework master's degree is awarded with distinction if a student meets the following requirements:

a. Obtained a weighted average of at least 75% (not rounded) in the coursework modules needed to comply with degree requirements, and
b. Obtained a final mark of 75% or above for the mini-dissertation; and
c. Completed the qualification within the maximum period allowed for master's study, but not in less than the prescribed minimum period of one academic year. Note: the maximum allowable time is twice that of the prescribed duration time period in relation to postgraduate students who study part-time (i.e. study while working full-time).
d. In the case of a coursework master's degree, did not fail or repeat any module during an additional examination. The result of a discontinuation of a module(s) will not be considered when calculating a qualification with distinction.

Curriculum: Year 1

Fundamental modules
Research methodology 813 (VRM 813) - Credits: 0.00

Core modules
Advanced fundamentals of pharmacology 876 (FAK 876) - Credits: 40.00
Veterinary industrial pharmacology 800 (VIP 800) - Credits: 50.00

Curriculum: Final year

Core modules
Mini-dissertation: Veterinary industrial pharmacology 890 (VIP 890) - Credits: 90.00

Doctorate

PhD option Anatomy and Physiology (08261006)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G42 – G55 and Postgraduate Faculty regulations.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit publication. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The project should be sufficient to generate at least three research articles.

A student for doctoral studies must complete his or her studies within three years after first registering for the degree.

Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.

Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a doctoral student will be accepted for the second and third year of the study.

Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures.

Admission requirements

1. Relevant master's degree in science

Additional requirements

It remains the prerogative of the relevant head of department to require an admissions test prior to registration for the degree study, in addition to the regulatory requirements. A pass in a proficiency test in English (TOEFL) at an acceptable level may also be required, especially in the case of international candidates.

Examinations and pass requirements

Also consult the General Academic Regulations G50

The degree is conferred by virtue of the successful completion of a thesis as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The thesis must contain proof of a candidate’s ability to conduct original research that contributes to the development of new knowledge and expertise.

A thesis is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn- or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General

Academic Regulation G50 with regard to the submission and technical editing of the thesis).

If a thesis is submitted after the due date specified above, the student takes the risk that the examination of the thesis may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The thesis will be evaluated by three examiners (for the appointment of the examination panel, consult the General Academic Regulations G50.4.1).

A specific mark for the thesis is not allocated, but the examiner's report should clearly state the recommendation that the thesis be accepted or rejected. Reasons must be provided should the recommendation be that the thesis be rejected.

Faculty PhD Celebration:
Candidates will be invited immediately prior to their graduation to showcase their work to the faculty, friends and family that they've invited to the event. The faculty will cater for this event and ensure that students and senior management are available for photographic opportunities. Students will be required to be in formal academic attire for the event. It is also recommended, where possible, that supervisors, and faculty management also be in formal academic attire for the event.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulation G54.

i. A doctoral degree will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the submission and successful evaluation of the thesis, proof of acceptance of a research publication in an accredited journal, as well as compliance with all the requirements for the particular programme.
ii. A doctoral degree, including a doctoral degree by virtue of publications, is not deemed to be completed if the electronic version of the thesis or other research-relevant output has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a doctoral degree, or a doctoral degree by virtue of publications, before the qualification has been conferred on him or her at a graduation ceremony.
iv. A doctoral degree, including a doctoral degree by virtue of publications, is not conferred with distinction.

Research information

Also consult the General Academic Regulations G50.

The main objective of doctoral studies is to enable the candidate to undertake original research that contributes to the development of new knowledge and expertise in all its semi-fractions, under supervision. The basic requirements and expectations of a PhD at the Faculty are:

i. That the project should have been planned, executed and the results written up by the candidate.
ii. The findings should make an original, meaningful contribution to science.
iii. The project should be sufficient to generate three research articles of which at least one must be published to comply with the degree requirements. It is recommended that the second article has been submitted for publication and the third to be in draft format when the thesis is submitted for examination.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic will be determined in consultation with the supervisor and the relevant head of department, following which the research projects will be approved in terms of Faculty guidelines and the General

Regulations. Each candidate must satisfy the relevant head of department that he or she is working at an institution with the necessary facilities, to enable him or her to complete the work as required for the degree, satisfactorily.

Research undertaken by a doctoral student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Retention and preservation of research data
Also consult the General Academic Regulation G50.

The data generated through research conducted at the University of Pretoria must be managed in accordance with the Research Data Management policy and the related Research Data Management procedure. The policy enables the verification of the research and is aimed at the protection of students, researchers, principal investigators and the University against a variety of disputes concerning published or patented research, and the retention of detailed research records for later access.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the doctoral study must remain confidential, the supervisor will be required to submit an application in writing to the Faculty Postgraduate and Research committee stating the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Curriculum: Year 1

Core modules
Thesis: Anatomy and physiology 902 (VWE 902) - Credits: 360.00

Curriculum: Year 2

Core modules
Thesis: Anatomy and physiology 902 (VWE 902) - Credits: 360.00

Curriculum: Final year

Core modules
Thesis: Anatomy and physiology 902 (VWE 902) - Credits: 360.00

PhD option Companion Animal Clinical Studies (08261007)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G42 – G55 and Postgraduate Faculty regulations.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit publication. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the

submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The project should be sufficient to generate at least three research articles.

A student for doctoral studies must complete his or her studies within three years after first registering for the degree.

Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.

Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a doctoral student will be accepted for the second and third year of the study.

Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures.

Admission requirements

1. Relevant master's degree in science

Additional requirements

It remains the prerogative of the relevant head of department to require an admissions test prior to registration for the degree study, in addition to the regulatory requirements. A pass in a proficiency test in English (TOEFL) at an acceptable level may also be required, especially in the case of international candidates.

Examinations and pass requirements

Also consult the General Academic Regulations G50

The degree is conferred by virtue of the successful completion of a thesis as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The thesis must contain proof of a candidate’s ability to conduct original research that contributes to the development of new knowledge and expertise.

A thesis is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn- or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G50 with regard to the submission and technical editing of the thesis).

If a thesis is submitted after the due date specified above, the student takes the risk that the examination of the thesis may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The thesis will be evaluated by three examiners (for the appointment of the examination panel, consult the General Academic Regulations G50.4.1).

A specific mark for the thesis is not allocated, but the examiner’s report should clearly state the recommendation that the thesis be accepted or rejected. Reasons must be provided should the recommendation be that the thesis be rejected.

Faculty PhD Celebration:
Candidates will be invited immediately prior to their graduation to showcase their work to the faculty, friends and family that they’ve invited to the event. The faculty will cater for this event and ensure that students and senior

management are available for photographic opportunities. Students will be required to be in formal academic attire for the event. It is also recommended, where possible, that supervisors, and faculty management also be in formal academic attire for the event.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulation G54.

i. A doctoral degree will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the submission and successful evaluation of the thesis, proof of acceptance of a research publication in an accredited journal, as well as compliance with all the requirements for the particular programme.
ii. A doctoral degree, including a doctoral degree by virtue of publications, is not deemed to be completed if the electronic version of the thesis or other research-relevant output has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.
iii. No one is entitled to any privileges pertaining to a doctoral degree, or a doctoral degree by virtue of publications, before the qualification has been conferred on him or her at a graduation ceremony.
iv. A doctoral degree, including a doctoral degree by virtue of publications, is not conferred with distinction.

Research information

Also consult the General Academic Regulations G50.

The main objective of doctoral studies is to enable the candidate to undertake original research that contributes to the development of new knowledge and expertise in all its semi-fractions, under supervision. The basic requirements and expectations of a PhD at the Faculty are:

i. That the project should have been planned, executed and the results written up by the candidate.
ii. The findings should make an original, meaningful contribution to science.
iii. The project should be sufficient to generate three research articles of which at least one must be published to comply with the degree requirements. It is recommended that the second article has been submitted for publication and the third to be in draft format when the thesis is submitted for examination.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic will be determined in consultation with the supervisor and the relevant head of department, following which the research projects will be approved in terms of Faculty guidelines and the General Regulations. Each candidate must satisfy the relevant head of department that he or she is working at an institution with the necessary facilities, to enable him or her to complete the work as required for the degree, satisfactorily.

Research undertaken by a doctoral student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Retention and preservation of research data
Also consult the General Academic Regulation G50.

The data generated through research conducted at the University of Pretoria must be managed in accordance with the Research Data Management policy and the related Research Data Management procedure. The policy enables the verification of the research and is aimed at the protection of students, researchers, principal investigators and the University against a variety of disputes concerning published or patented research, and the

retention of detailed research records for later access.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the doctoral study must remain confidential, the supervisor will be required to submit an application in writing to the Faculty Postgraduate and Research committee stating the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Curriculum: Year 1

Core modules
Thesis: Companion animal clinical sciences 903 (VWE 903) - Credits: 360.00

Curriculum: Year 2

Core modules
Thesis: Companion animal clinical sciences 903 (VWE 903) - Credits: 360.00

Curriculum: Final year

Core modules
Thesis: Companion animal clinical sciences 903 (VWE 903) - Credits: 360.00

PhD option Paraclinical Sciences (08261008)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G42 – G55 and Postgraduate Faculty regulations.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit publication. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The project should be sufficient to generate at least three research articles.

A student for doctoral studies must complete his or her studies within three years after first registering for the degree.

Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.

Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a doctoral student will be accepted for the second and third year of the study.

Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures.

Admission requirements

1. Relevant master's degree in science

Additional requirements

It remains the prerogative of the relevant head of department to require an admissions test prior to registration for the degree study, in addition to the regulatory requirements. A pass in a proficiency test in English (TOEFL) at an acceptable level may also be required, especially in the case of international candidates.

Examinations and pass requirements

Also consult the General Academic Regulations G50

The degree is conferred by virtue of the successful completion of a thesis as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The thesis must contain proof of a candidate’s ability to conduct original research that contributes to the development of new knowledge and expertise.

A thesis is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn- or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G50 with regard to the submission and technical editing of the thesis).

If a thesis is submitted after the due date specified above, the student takes the risk that the examination of the thesis may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The thesis will be evaluated by three examiners (for the appointment of the examination panel, consult the General Academic Regulations G50.4.1).

A specific mark for the thesis is not allocated, but the examiner’s report should clearly state the recommendation that the thesis be accepted or rejected. Reasons must be provided should the recommendation be that the thesis be rejected.

Faculty PhD Celebration:
Candidates will be invited immediately prior to their graduation to showcase their work to the faculty, friends and family that they’ve invited to the event. The faculty will cater for this event and ensure that students and senior management are available for photographic opportunities. Students will be required to be in formal academic attire for the event. It is also recommended, where possible, that supervisors, and faculty management also be in formal academic attire for the event.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulation G54.

i. A doctoral degree will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the submission and successful evaluation of the thesis, proof of acceptance of a research publication in an accredited journal, as well as compliance with all the requirements for the particular programme.
ii. A doctoral degree, including a doctoral degree by virtue of publications, is not deemed to be completed if the electronic version of the thesis or other research-relevant output has not been submitted to the relevant faculty administration prior to the date of closure of the graduation/finalist list for the forthcoming graduation ceremony.

iii. No one is entitled to any privileges pertaining to a doctoral degree, or a doctoral degree by virtue of publications, before the qualification has been conferred on him or her at a graduation ceremony.
iv. A doctoral degree, including a doctoral degree by virtue of publications, is not conferred with distinction.

Research information

Also consult the General Academic Regulations G50.

The main objective of doctoral studies is to enable the candidate to undertake original research that contributes to the development of new knowledge and expertise in all its semi-fractions, under supervision. The basic requirements and expectations of a PhD at the Faculty are:

i. That the project should have been planned, executed and the results written up by the candidate.
ii. The findings should make an original, meaningful contribution to science.
iii. The project should be sufficient to generate three research articles of which at least one must be published to comply with the degree requirements. It is recommended that the second article has been submitted for publication and the third to be in draft format when the thesis is submitted for examination.
iv. Please note that explicit hypothesis-testing, i.e. experimental work is not necessarily mandatory.

The research topic will be determined in consultation with the supervisor and the relevant head of department, following which the research projects will be approved in terms of Faculty guidelines and the General Regulations. Each candidate must satisfy the relevant head of department that he or she is working at an institution with the necessary facilities, to enable him or her to complete the work as required for the degree, satisfactorily.

Research undertaken by a doctoral student is conducted in accordance with the University's Code of ethics for scholarly activities. All research proposals must be submitted for ethics clearance/approval/exemption to the relevant faculty research and/or research ethics committee. Faculty research ethics committees have the authority to consider and approve or reject research proposals within the guidelines of the general policy.

Retention and preservation of research data
Also consult the General Academic Regulation G50.

The data generated through research conducted at the University of Pretoria must be managed in accordance with the Research Data Management policy and the related Research Data Management procedure. The policy enables the verification of the research and is aimed at the protection of students, researchers, principal investigators and the University against a variety of disputes concerning published or patented research, and the retention of detailed research records for later access.

Non-disclosure of the contents of a study (Embargo): Where part or all of the contents of the doctoral study must remain confidential, the supervisor will be required to submit an application in writing to the Faculty Postgraduate and Research committee stating the grounds for such a request and indicating the duration of the period of confidentiality. This period would normally not exceed 2 (two) years. The committee considers the application and either approves it or refers it back to the supervisor. The faculty must keep record of the decisions and the embargo, and the information must be shared with the Department of Library Services.

Curriculum: Year 1

Core modules

Thesis: Paraclinical sciences 904 (VWE 904) - Credits: 360.00

Curriculum: Year 2

Core modules

Thesis: Paraclinical sciences 904 (VWE 904) - Credits: 360.00

Curriculum: Final year

Core modules

Thesis: Paraclinical sciences 904 (VWE 904) - Credits: 360.00

PhD option Production Animal Studies (08261009)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G42 – G55 and Postgraduate Faculty regulations.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit publication. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The project should be sufficient to generate at least three research articles.

A student for doctoral studies must complete his or her studies within three years after first registering for the degree.

Students are required to re-register before 31 March of every academic year until all the requirements of the degree have been met.

Providing that progress is satisfactory (based on the annual progress report(s) submitted), renewal of the registration of a doctoral student will be accepted for the second and third year of the study.

Renewal of registration after the three-year period is permitted only in exceptional circumstances and granted only for a limited fixed extension of this period in accordance with the relevant faculty procedures.

Admission requirements

1. Relevant master's degree in science

Additional requirements

It remains the prerogative of the relevant head of department to require an admissions test prior to registration for the degree study, in addition to the regulatory requirements. A pass in a proficiency test in English (TOEFL) at an acceptable level may also be required, especially in the case of international candidates.

Examinations and pass requirements

Also consult the General Academic Regulations G50

The degree is conferred by virtue of the successful completion of a thesis as well as the submission of proof of

acceptance of a first-author research article for publication issued by an accredited journal. The thesis must contain proof of a candidate's ability to conduct original research that contributes to the development of new knowledge and expertise.

A thesis is submitted to the Head: Student Administration, before the closing date for the relevant graduation ceremonies as announced annually (i.e. 31 October or 31 March to qualify for the Autumn- or Spring graduation, respectively), after permission is granted by the supervisor and co-supervisor(s). (Also consult the General Academic Regulation G50 with regard to the submission and technical editing of the thesis).

If a thesis is submitted after the due date specified above, the student takes the risk that the examination of the thesis may be delayed and the student will not be considered for the graduation concerned. A student will only be allowed to graduate if the student has successfully complied with all the requirements for the particular programme.

The thesis will be evaluated by three examiners (for the appointment of the examination panel, consult the General Academic Regulations G50.4.1).

A specific mark for the thesis is not allocated, but the examiner's report should clearly state the recommendation that the thesis be accepted or rejected. Reasons must be provided should the recommendation be that the thesis be rejected.

Faculty PhD Celebration:
Candidates will be invited immediately prior to their graduation to showcase their work to the faculty, friends and family that they've invited to the event. The faculty will cater for this event and ensure that students and senior management are available for photographic opportunities. Students will be required to be in formal academic attire for the event. It is also recommended, where possible, that supervisors, and faculty management also be in formal academic attire for the event.

Compliance with degree requirements and degree privileges
Also consult the General Academic Regulation G54.

i. A doctoral degree will be conferred on a student only after the successful completion of every requirement of each component of the relevant degree programme, including the submission and successful evaluation of the thesis, proof of acceptance of a research publication in an accredited journal, as well as compliance with all the requirements for the particular programme.
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Research information

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Retention and preservation of research data
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Curriculum: Year 1

Core modules
Thesis: Production animal studies 905 (VWE 905) - Credits: 360.00

Curriculum: Year 2

Core modules
Thesis: Production animal studies 905 (VWE 905) - Credits: 360.00

Curriculum: Final year

Core modules
Thesis: Production animal studies 905 (VWE 905) - Credits: 360.00

PhD option Veterinary Tropical Diseases (08260272)

Minimum duration of study	3 years

Programme information

Also consult the General Academic Regulations G42 – G55 and Postgraduate Faculty regulations.

A doctoral degree is a postgraduate qualification of at least 360 credits at NQF Level 10 and must demonstrate a high level of research capability and it must make a significant and original academic contribution at the knowledge frontiers of a discipline or field. The work must be of a quality to satisfy peer review consideration and merit publication. It requires a candidate to undertake research at the most advanced academic levels, requiring a high level of theoretical engagement and intellectual and research independence, culminating in the submission, assessment and acceptance of a thesis; as well as the submission of proof of acceptance of a first-author research article for publication issued by an accredited journal. The project should be sufficient to generate at least three research articles.

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The data generated through research conducted at the University of Pretoria must be managed in accordance with the Research Data Management policy and the related Research Data Management procedure. The policy enables the verification of the research and is aimed at the protection of students, researchers, principal investigators and the University against a variety of disputes concerning published or patented research, and the retention of detailed research records for later access.

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Curriculum: Year 1

Core modules
Thesis: Veterinary tropical diseases 901 (VWE 901) - Credits: 360.00

Curriculum: Year 2

Core modules
Thesis: Veterinary tropical diseases 901 (VWE 901) - Credits: 360.00

Curriculum: Final year

Core modules
Thesis: Veterinary tropical diseases 901 (VWE 901) - Credits: 360.00

Modules

Introduction to zoonosis 805 (AHE 805)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

This module deals with basic concepts and principles of zoonoses with a clear focus on wildlife/livestock/human interactions. Key drivers, contributing underlying factors as well as impacts of zoonoses will be investigated against the background of socio-economic determinants, the environment, animal husbandry practices; integrated intervention tools and strategies; integrated medical and veterinary data collection, cultural perceptions and advocacy and policy development.

Advanced One Health 812 (AHE 812)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

(elective)

This module will provide students with an understanding of health in particular social-ecological systems, with a focus on understanding the relationship between ecosystem health and infectious diseases of animals and humans, in order to improve disease control policies, ecosystem sustainability, food security and rural development.

Advanced one health: public health 813 (AHE 813)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09

Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

(elective)

This module will focus on the human dimension of One Health. It introduces an approach to formulate a zoonotic disease control programme. After the module students should be able to explain the disease burden of a particular zoonosis, to develop an epidemiological model, to analyse its broader determinants, to appraise and prioritise possible interventions based on effectiveness, cost, feasibility and acceptability and to identify implementation challenges in a specific public health system's context.

Animal health management: high impact and emerging diseases 814 (AHE 814)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

(elective)

This module deals with the concepts and principles of basic animal health management for livestock production and trade in livestock and livestock commodities. There will be a special focus on the management of infectious diseases that have a high impact in terms of international trade because of their detrimental effects on livestock production and health and/or human health. The module will also examine the drivers for emerging and re-emerging diseases with special reference to the livestock/wildlife/human interface.

Advanced One Health: policy 815 (AHE 815)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

(elective)

Policy is generally defined as a plan of action on the part of a government, business or other organisation intended to influence decisions and actions in a particular direction. This module introduces the key principles in policy making in regard to animal health and trade in livestock or livestock products. It will consider the essentials of “effective” policy creation, the role of science and uncertainty in policy, policy analysis and the role of government versus the private sector in animal health.

Surveillance and survey methodology 816 (AHE 816)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

(elective)

This module deals with the concepts and principles of terrestrial animal (livestock and wildlife) health surveillance; including the design; implementation and evaluation of surveillance system; the data sources; tools and methods available to perform effective surveillance; and the evaluation and analysis of surveillance data. This module will also provide an introduction to geographic information systems (GIS) and provide basic skills on how to use GIS in epidemiological studies.

Laboratory diagnostics 820 (AHE 820)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

This module deals with the concepts and principles of field and laboratory diagnosis of infectious and parasitic diseases of livestock and wildlife including aspects of specimen collection and shipment, interpretation of laboratory results and basic laboratory management.

Animal health management: high impact and emerging diseases 821 (AHE 821)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

(elective)

This module deals with the concepts and principles of basic animal health management for livestock production and trade in livestock and livestock commodities. There will be a special focus on the management of infectious diseases that have a high impact in terms of international trade because of their detrimental effects on livestock production and health and/or human health. The module will also examine the drivers for emerging and re-emerging diseases with special reference to the livestock/wildlife/human interface.

Surveillance and survey methodology 822 (AHE 822)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

(elective)

This module deals with the concepts and principles of terrestrial animal (livestock and wildlife) health surveillance; including the design; implementation and evaluation of surveillance system; the data sources; tools and methods available to perform effective surveillance; and the evaluation and analysis of surveillance data. This module will also provide an introduction to geographic information systems (GIS) and provide basic skills on how to use GIS in epidemiological studies.

Mini-dissertation 890 (AHE 890)

Qualification	Postgraduate
Module credits	80.00
NQF Level	09

Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

A mini-dissertation must be delivered on an appropriate topic depending on the field of interest of the student. A research project of limited scope must be undertaken and written in the format of a mini-dissertation to fulfil the requirements of the MSc. The research topic is determined in consultation with the supervisor and head of department and the research project must be approved according to Faculty guidelines.
Before or together with the mini-dissertation, a student must submit at least one draft article for publication in an acknowledged journal, failing which the degree will not be conferred. The draft article must be based on the research for the mini-dissertation and must be acceptable to the supervisor and meet subsidy requirements.

Mini-dissertation 895 (AHE 895)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

A mini-dissertation must be submitted on an appropriate topic depending on the field of interest of the student. A research project of limited scope must be undertaken and written in the format of a mini-dissertation to fulfil the requirements of the MSc. The research topic is determined in consultation with the supervisor and head of department and the research project must be approved according to Faculty guidelines. Before or together with the mini-dissertation, a student must submit at least one draft article for publication in an acknowledged journal to the Faculty Administration, failing which the degree will not be conferred. The draft article must be based on the research for the mini-dissertation and must be acceptable to the supervisor and meet subsidy requirements.

Academic information management 111 (AIM 111)

Qualification	Undergraduate
Module credits	4.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs] Bachelor of Veterinary Science [BVSc]

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)

Qualification	Undergraduate
Module credits	4.00
NQF Level	05

Programmes	BA in Audiology BA in Fine Arts 4-year programme BA in Fine Arts 5-year programme BA in Information Design BA in Speech-Language Pathology BA specialising in Languages BA specialising in Law BA specialising in Philosophy, Politics and Economics BA specialising in Visual Studies BAdmin specialising in Public Management and International Relations BCom 3-year programme BCom 4-year programme BCom in Accounting Sciences BCom specialising in Agribusiness Management BCom specialising in Business Management BCom specialising in Econometrics BCom specialising in Economics BCom specialising in Financial Management Sciences BCom specialising in Human Resource Management BCom specialising in Information Systems BCom specialising in Investment Management BCom specialising in Law BCom specialising in Marketing Management BCom specialising in Statistics and Data Science BCom specialising in Supply Chain Management BEd in Early Childhood Care and Education BEd in Foundation Phase Teaching BEd in Intermediate Phase Teaching BEd in Senior Phase and Further Education and Training Teaching BPolSci specialising in International Studies BPolSci specialising in Political Studies BSc in Actuarial and Financial Mathematics BSc in Applied Mathematics BSc in Architecture BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Computer Science BSc in Construction Management BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geoinformatics BSc in Geoinformatics 4-year programme BSc in Geology BSc in Geology 4-year programme BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Information Technology in Information and Knowledge Systems BSc in Mathematical Statistics BSc in Mathematics BSc in Mathematics 4-year programme BSc in Medical Sciences BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Quantity Surveying BSc in Real Estate BSc in Zoology BScAgric in Agricultural Economics in Agribusiness Management BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme BSocSci in Heritage and Cultural Sciences option Heritage and Cultural Tourism BSocSci specialising in Industrial Sociology and Labour Studies Bachelor of Arts [BA] 3-year programme Bachelor of Arts [BA] 4-year programme Bachelor of Clinical Medical Practice [BCMP] Bachelor of Consumer Science in Food Retail Management [BConSci] Bachelor of Consumer Science in Hospitality Management [BConSci] Bachelor of Consumer Science specialising in Clothing Retail Management [BConSci] Bachelor of Dental Surgery [BChD] Bachelor of Dietetics [BDietetics] Bachelor of Divinity [BDiv] Bachelor of Drama [BDram] 3-year programme Bachelor of Drama [BDram] 4-year programme Bachelor of Information Science [BIS] Bachelor of Information Science specialising in Multimedia [BIS] Bachelor of Information Science specialising in Publishing [BIS] Bachelor of Information Technology in Information Systems [BIT] Bachelor of Laws [LLB] Bachelor of Medicine and Surgery [MBChB] Bachelor of Music [BMus] 4-year programme Bachelor of Music [BMus] 5-year programme Bachelor of Nursing Science [BNurs] Bachelor of Occupational Therapy [BOT] Bachelor of Oral Hygiene [BOH] Bachelor of Physiotherapy [BPhysio] Bachelor of Radiography in Diagnostics [BRad in Diagnostics] Bachelor of Social Work [BSW] Bachelor of Sports Science [BSportSci] Bachelor of Theology [BTh] Bachelor of Town and Regional Planning [BTRP] Bachelor of Veterinary Nursing [BVetNurs] Bachelor of Veterinary Science [BVSc] Diploma in Theology

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.

Clinical Anatomy 701 (ANG 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

(BVSc graduates only)
An in-depth study of the osteology, arthrology, myology, angiology, neurology, splanchnology and topographical anatomy of a species of interest. Special attention to clinically important sections of the anatomy. The course will allow for further studies in anatomy for intercalation with subjects such as diagnostic imaging and surgery.

Clinical Anatomy 781 (ANG 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

(BVSc graduates only)
An in-depth study of the osteology, arthrology, myology, angiology, neurology, splanchnology and topographical anatomy of a species of interest. Special attention to clinically important sections of the anatomy. The course will allow for further studies in anatomy for intercalation with subjects such as diagnostic imaging and surgery.

Anaesthesiology 420 (ANV 420)

Qualification	Undergraduate
Module credits	7.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	3 lectures per week for 14 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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.

Anaesthesiology 701 (ANV 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical training on canine and feline anaesthesia and analgesia.The module covers the latest techniques in anaesthetising compromised animals and the use of total intravenous anaesthetic techniques, positive pressure ventilation, peripheral muscle relaxants and monitor apparatus.

Anaesthesiology 781 (ANV 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical training on canine and feline anaesthesia and analgesia.The module covers the latest techniques in anaesthetising compromised animals and the use of total intravenous anaesthetic techniques, positive pressure ventilation, peripheral muscle relaxants and monitor apparatus.

Small animal anaesthesiology 782 (ANV 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	30 Hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Theoretical and practical training in specific areas of small animal anaesthesia and analgesia for the veterinary nurse. Formulation and implementation of appropriate strategies to comply with relevant standards.

Anaesthesiology 800 (ANV 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Anaesthesiology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced theoretical and practical and experiential training in the administration of local and general anaesthetics on a species-orientated basis. The module covers the structure and functioning of inhalation anaesthesia and monitor apparatus, the latest use of total intravenous anaesthetic techniques, positive pressure ventilation, peripheral muscle relaxants and the techniques and equipment employed for the immobilisation of game.
Theoretical training includes the attendance of postgraduate seminars in Anaesthesiology at the School of Medicine.

Mini-dissertation: Anaesthesiology 890 (ANV 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Anaesthesiology (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Small animal behaviour and welfare 702 (ANW 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Theoretical and practical training in assessment of welfare of dogs and cats in various contexts including shelters and dog population control. Formulation and implementation of appropriate strategies to comply with relevant standards.

Animal welfare principles 781 (ANW 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced training in general principles and assessment of animal welfare with an emphasis on farm animals and animals destined for slaughter. Comparative evaluation of animal welfare in different contexts including wild and exotic species, companion animals, laboratory, teaching and working animals, and in disaster situations.

Applied serology 813 (ASR 813)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Contact time	8 web-based periods per week
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training

The module will enable delegates to develop proficiency in procedures in veterinary immunology and serology, and to implement and standardize different serological techniques with special emphasis on ELISA and FA techniques.

Applied bacteriology 820 (AVB 820)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training

This module provides an introduction to the basic concepts of veterinary bacteriology, from sampling and handling of specimens to the methods and tools used for isolation and identification of bacteria of veterinary significance in the laboratory.

Applied helminthology 815 (AVH 815)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training

This module provides an introduction to the control of helminth infections of economic or public health importance in the tropics. The focus is on transmission of helminths of livestock and on sustainable methods to break the lifecycles. Practical study includes common parasitological techniques and interpretation of parasitological parameters.

Applied virology 820 (AVV 820)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training

Theoretical and practical study of the use of cell cultures and embryonated chicken eggs for the isolation and identification of viruses.

African wildlife disease management 701 (AWD 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine

Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced training in infectious, parasitic and nutritional diseases of wildlife and their management in African wildlife species under ranching conditions. Also included are ostrich and crocodile farming.

African wildlife disease management 781 (AWD 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced training in infectious, parasitic and nutritional diseases of wildlife and their management in African wildlife species under ranching conditions. Also included are ostrich and crocodile farming.

Bovine herd health 801 (BHH 801)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	A BVSc, a four year BSc in Agriculture (Animal Science), Microbiology, Zoology or an equivalent degree
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The primary aim of this module is to provide the candidate with the skills and competence to promote the health and production efficiency of cattle operations (dairy, beef and feedlots). The module will enable students to integrate and apply knowledge so that health and production can be monitored and problems can be identified and solved on a herd basis.

The module content will be based on advanced theoretical training in bovine herd health with emphasis on principles of herd health and production programmes, animal health economics, monitoring dairy herd health and production (applied nutrition, fertility, udder health, foot health, general cow health, calves and replacement heifers), monitoring the health and performance of beef cow calf enterprises (resource base, forage and beef cow-calf stock flow, applied nutrition, fertility, young stock, integrated resource, health and management program), and beef feedlots

Bovine health and production 800 (BHP 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Bovine Medicine (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced and applied training to augment theoretical material presented in core and elective modules. Depending on the students' focus and field of interest he/she can chose per capita topics pertaining to either dairy herd health, beef herd health, feedlot beef production or clinical medicine. Dairy herd health can include in depth reviews on mastitis problems, dairy nutrition, dairy reproduction, lameness, young stock management and associated metabolic conditions. Beef herd health can include veld and pasture management, beef production and nutrition, reproduction and pertinent diseases and conditions. Feedlot beef production can include feedlot nutrition, respiratory anatomy and physiology, respiratory diseases, conditions, diagnosis and treatment, pharmacology, young stock management and production indices. Clinical medicine can include organ, metabolic and deficiency conditions along with the relevant pathophysiology, diagnosis and treatment methods. Advanced training in the chosen topics will be offered firstly in the form of seminar presentation and discussions. Clinical applications will be offered in the form of field visits to the relevant chosen areas and fields of interest as well as clinical supervision within the veterinary hospital clinical rotations. Supervised clinical training comprises a minimum 90 weeks. Integration and application of knowledge of health and production problems and evaluation of health status, production and economic effectiveness of dairy and or beef systems will be core.

Mini-dissertation: Bovine health and production 890 (BHP 890)

Qualification	Postgraduate

Module credits	90.00
NQF Level	09
Programmes	MMedVet in Bovine Medicine (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Mini-dissertation

Biometry 120 (BME 120)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05

Programmes	BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geology BSc in Geology 4-year programme BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Information Technology in Information and Knowledge Systems BSc in Medical Sciences BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Information Technology in Information Systems [BIT] Bachelor of Veterinary Science [BVSc]
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	4 lectures per week, 1 practical 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 twoway 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.

Economic evaluation of disease control intervention 872 (CDS 872)

Qualification	Postgraduate
Module credits	5.00
NQF Level	09
Programmes	Master of Public Health [MPH]
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Module content

Students learn when and how to perform economic analyses.

Small animal surgery 781 (CHV 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study of small animal orthopaedic surgery.

Small animal surgery 782 (CHV 782)

Qualification	Postgraduate

Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study of small animal soft tissue surgery.

Surgery 800 (CHV 800)

Qualification	Postgraduate
Module credits	400.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced theoretical, practical and experiential module in equine surgery.

Surgery 803 (CHV 803)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Small Animal Surgery (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced theoretical, practical and experiential module in small animal surgery.

Surgery 804 (CHV 804)

Qualification	Postgraduate

Module credits	270.00
NQF Level	09
Programmes	MMedVet in Surgery option Equine Surgery (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced theoretical, practical and experiential module in equine surgery.

Mini-dissertation: Equine surgery 890 (CHV 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Surgery option Equine Surgery (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Mini-dissertation: Small animal surgery 892 (CHV 892)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Small Animal Surgery (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Mini-dissertation: Equine surgery 894 (CHV 894)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Prerequisites	VRM 813

Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Clinical pathology 410 (CLP 410)

Qualification	Undergraduate
Module credits	7.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	3 lectures per week over 14 weeks, 1 practical per week for 2 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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.

Clinical reproduction 701 (CLR 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Causes, pathogenesis, control, treatment and prevention of diseases and malfunctions of reproduction in cattle, as well as the evaluation of males and females for breeding soundness. Also included are certain aspects of assisted reproduction and reproductive biotechnology, such as control of the oestrous cycle and parturition. A veterinary perspective (indications, limitations, current and future possibilities, and methods) on reproductive biotechnologies.

Clinical reproduction 781 (CLR 781)

Qualification	Postgraduate

Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Causes, pathogenesis, control, treatment and prevention of diseases and malfunctions of reproduction in cattle, as well as the evaluation of males and females for breeding soundness. Also included are certain aspects of assisted reproduction and reproductive biotechnology, such as control of the oestrous cycle and parturition. A veterinary perspective (indications, limitations, current and future possibilities, and methods) on reproductive biotechnologies.

General chemistry 117 (CMY 117)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05

Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Applied Mathematics BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Computer Science BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geology BSc in Geology 4-year programme BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Mathematics BSc in Mathematics 4-year programme BSc in Medical Sciences BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Zoology BScAgric in Agricultural Economics in Agribusiness Management BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Dietetics [BDietetics]
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education 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	4 lectures per week, 1 practical per week
Language of tuition	Module is presented in English
Department	Chemistry

Period of presentation	Semester 1

Module content

General introduction to inorganic, analytical and physical chemistry. Atomic structure and periodicity. Molecular structure and chemical bonding using the VSEPR-model. Nomenclature of inorganic ions and compounds. Classification of reactions: precipitation, acid-base, redox reactions and gas-forming reactions. Mole concept and stoichiometric calculations concerning chemical formulas and chemical reactions. Principles of reactivity: energy and chemical reactions. Physical behaviour gases, liquids, solids and solutions and the role of intermolecular forces. Rate of reactions: Introduction to chemical kinetics.

General chemistry 127 (CMY 127)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05

Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Applied Mathematics BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Computer Science BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geology BSc in Geology 4-year programme BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Mathematics BSc in Mathematics 4-year programme BSc in Medical Sciences BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Dietetics [BDietetics]
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	Natural and Agricultural Sciences students: CMY 117 GS or CMY 154 GS Health Sciences students: none
Contact time	1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Chemistry

Period of presentation	Semester 2

Module content

Theory: General physical-analytical chemistry: Chemical equilibrium, acids and bases, buffers, solubility equilibrium, entropy and free energy, electrochemistry. Organic chemistry: Structure (bonding), nomenclature, isomerism, introductory stereochemistry, introduction to chemical reactions and chemical properties of organic compounds and biological compounds, i.e. carbohydrates and aminoacids. Practical: Molecular structure (model building), synthesis and properties of simple organic compounds.

Chemistry 151 (CMY 151)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05
Programmes	Bachelor of Dental Surgery [BChD] Bachelor of Medicine and Surgery [MBChB] Bachelor of Physiotherapy [BPhysio] Bachelor of Veterinary Science [BVSc]
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	4 lectures per week, 1 practical 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.

Controlled and notifiable diseases 701 (CND 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine

Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

Advanced training in diseases with implications on trade and/or human health/wellbeing. The module will covey advanced knowledge in the specific disease, their management and basic monitoring epidemiological tools. Attention will also be given to emerging diseases as well as diseases associated with wildlife ranching.

Controlled and notifiable 781 (CND 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

Advanced training in diseases with implications on trade and/or human health/wellbeing. The module will covey advanced knowledge in the specific disease, their management and basic monitoring epidemiological tools. Attention will also be given to emerging diseases as well as diseases associated with wildlife ranching.

Clinical veterinary nursing 121 (CVN 121)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	21 lectures per week for 2 weeks, 6 seminars for 2 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 2

Module content

Relevant anatomy and physiology, husbandry and handling, hospitalisation, medical nursing, surgical nursing, emergency and critical care, nutrition, common conditions, neonatal care, and anaesthesia of birds; reptiles; small mammals including rabbits, rats and mice, guinea pigs and chinchillas; primates, small carnivores, sugar gliders, hedgehogs and small wildlife. The hand rearing of wild hoof stock. Community-based practical learning takes place off-site to enable students to apply theory and develop clinical skills.

Clinical veterinary nursing 122 (CVN 122)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	1.5 discussion classes per week for 2 weeks, 25.5 lectures per week for 2 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 2

Module content

Nursing of the patients, of the relevant domestic animals, with diseases of the skin, hooves, teat and udder. Diagnostic procedures related to the skin.

Clinical veterinary nursing 211 (CVN 211)

Qualification	Undergraduate
Module credits	18.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	3 practicals per week over 4 weeks, 20 lectures per week for 4 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 1

Module content

Nursing and physical rehabilitation of musculo-skeletal patients of the relevant domestic animals. Diagnostic imaging of the skeleton. Principles of theatre practice.

Clinical veterinary nursing 212 (CVN 212)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	3 practicals per week over 2 weeks, 24 lectures per week for 2 weeks

Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

Nursing of patients, of the relevant domestic animals, with dental and gastrointestinal diseases. Diagnostic Imaging of the abdomen. Other diagnostic procedures related to the gastro-intestinal tract.

Clinical veterinary nursing 213 (CVN 213)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	6 practicals per week for 2 weeks, 21 lectures per week for 2 weeks, 3 online lectures for 2 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

Nursing of patients, of the relevant domestic animals, with reproductive conditions. Care and nursing of neonates. Assisted reproduction technologies.

Clinical veterinary nursing 214 (CVN 214)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	1.5 practicals per week for 2 weeks, 1 discussion class per week over 2 weeks, 16 lectures per week for 2 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 1

Module content

Nursing of the patient with endocrine disease, of the relevant domestic animals. Nursing of urinary and renal patients. Diagnostic procedures related to the endocrine system, bladder and kidneys.

Clinical veterinary nursing 221 (CVN 221)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	1.5 online lecture for 1 week, 22 lectures per week for 2 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 2

Module content

Nursing of ophthalmological and neurological patients, of the relevant domestic animals. Diagnostic imaging of the skull and spine. Diagnostic procedures related to the eye and nervous system.

Clinical veterinary nursing 222 (CVN 222)

Qualification	Undergraduate
Module credits	18.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	19 lectures per week for 4 weeks, 2 practicals per week for 4 weeks, 1.5 online lecture for 4 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 2

Module content

Nursing of cardiac and respiratory patients, of the relevant domestic animals. Anaesthesiology of the veterinary patient. Diagnostic imaging of the thorax. Other diagnostic procedures related to the cardio-vascular and respiratory system. Physical animal rehabilitation related to the circulatory and respiratory systems.

Clinical veterinary nursing 223 (CVN 223)

Qualification	Undergraduate
Module credits	18.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.

Contact time	1.25 practicals per week for 4 weeks, 1.25 online lecture, 4 weeks, 20 lectures per week for 4 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 2

Module content

Critical care of patients, of the relevant domestic animals. Nursing of the oncology patient. Nursing of a patient with multi-systemic disease. Triage and emergencies.

Diagnostic imaging 400 (DIM 400)

Qualification	Undergraduate
Module credits	14.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	2.5 lectures per week for 28, 1 practical per week for 6 weeks
Language of tuition	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.

Non-radiological diagnostic imaging of dogs and cats 701 (DIM 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in non-radiological diagnostic imaging of dogs and cats. Approximately 76% is allocated to diagnostic ultrasound; 8% to MRI, CT and Scintigraphy each respectively. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed, as well as ways in which this field of study is linked to other diagnostic methods in order to confirm a diagnosis.

Non-radiological diagnostic imaging of horses 702 (DIM 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced study in non-radiological diagnostic imaging of horses. Approximately 80% is allocated to diagnostic ultrasound; 5% to MRI, 5% to CT and 10% to Scintigraphy. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed.

Non-radiological diagnostic imaging of ruminants 703 (DIM 703)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in non-radiological diagnostic imaging of ruminants. Approximately 85% is allocated to diagnostic ultrasound; 5% to MRI, CT and Scintigraphy each respectively. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed, as well as ways in which this field of study is linked to other diagnostic methods in order to confirm a diagnosis.

Radiology: Dogs and cats 705 (DIM 705)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of dogs and cats, including discussion on the pathophysiology, diagnosis and prognosis of pathological conditions.

Radiology: Horses 706 (DIM 706)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of horses, including discussion on the pathophysiology, diagnosis and prognosis of pathological conditions.

Radiology: Ruminants 707 (DIM 707)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies

Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of ruminants.
The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed as well as ways in which this field of study relates to other diagnostic methods in order to confirm a diagnosis.

Non-radiological diagnostic imaging of dogs and cats 791 (DIM 791)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in non-radiological diagnostic imaging of dogs and cats. Approximately 76% is allocated to diagnostic ultrasound; 8% to MRI, CT and Scintigraphy each respectively. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed, as well as ways in which this field of study is linked to other diagnostic methods in order to confirm a diagnosis.

Non-radiological diagnostic imaging of horses 792 (DIM 792)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced study in non-radiological diagnostic imaging of horses. Approximately 80% is allocated to diagnostic ultrasound; 5% to MRI, 5% to CT and 10% to Scintigraphy. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed.

Non-radiological diagnostic imaging of ruminants 793 (DIM 793)

Qualification	Postgraduate
Module credits	30.00

NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in non-radiological diagnostic imaging of ruminants. Approximately 85% is allocated to diagnostic ultrasound; 5% to MRI, CT and Scintigraphy each respectively. The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed, as well as ways in which this field of study is linked to other diagnostic methods in order to confirm a diagnosis.

Radiology: Dogs and cats 794 (DIM 794)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of dogs and cats, including discussion on the pathophysiology, diagnosis and prognosis of pathological conditions.

Radiology: Horses 795 (DIM 795)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of horses, including discussion on the pathophysiology, diagnosis and prognosis of pathological conditions.

Radiology: Ruminants 796 (DIM 796)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study of radiology of ruminants.
The pathophysiology, diagnosis and prognosis of pathological conditions are also discussed as well as ways in which this field of study relates to other diagnostic methods in order to confirm a diagnosis.

Diagnostic imaging 870 (DIM 870)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Diagnostic Imaging (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced study of small and large animal radiography, radiology, ultrasonography, scintigraphy, magnetic resonance imaging and computed tomography: with a view to specialisation.
Literature study and a minimum of 90 weeks practical work are also required.

Mini-dissertation: Diagnostic imaging 890 (DIM 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Diagnostic Imaging (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies

Period of presentation	Year

Diagnostic pathology 701 (DPA 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
Diagnostic pathology of the diseases in various animal species.

Diagnostic pathology 781 (DPA 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
Diagnostic pathology of the diseases in various animal species.

Diagnostic pathology 401 (DPT 401)

Qualification	Undergraduate
Module credits	12.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	21 practicals, 2 lectures per week over 28 weeks
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.

Diagnostic pathology 511 (DPT 511)

Qualification	Undergraduate
Module credits	12.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme
Contact time	14 practicals, 28 lectures
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	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.

Basis in environmental health 870 (EHM 870)

Qualification	Postgraduate
Module credits	5.00
NQF Level	09
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	1 practical per week, 1 other contact session per week, 1 lecture per week, 1 discussion class per week, 1 seminar per week
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Health risk assessment 871 (EHM 871)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	Master of Public Health [MPH]
Service modules	Faculty of Veterinary Science

Prerequisites	EOH 871
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Veterinary epidemiology 420 (EPL 420)

Qualification	Undergraduate
Module credits	10.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	2 lectures for 10 weeks, 1 practical session for 4 weeks, 1 discussion for 6 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.

Veterinary epidemiology 701 (EPL 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
An introductory module in veterinary epidemiology designed to provide a foundation in epidemiology to allow for a better understanding of epidemiological reports.

Veterinary epidemiology 7481 (EPL 781)

Qualification	Postgraduate

Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
An introductory module in veterinary epidemiology designed to provide a foundation in epidemiology to allow for a better understanding of epidemiological reports.

Basic epidemiology 801 (EPL 801)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

Compulsory module.

A web-based introductory module in epidemiology that includes general concepts, quantification of disease prevalence and incidence, interpretation of diagnostic test results, basic sampling designs and basic statistics.

Advanced epidemiology 803 (EPL 803)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	EPL 802 (with a minimum of 60% final mark)
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

This module builds on the subjects dealt with in the 'Basic Epidemiology' module. It includes advanced statistical models (generalised linear model, mixed models, survival analysis) and introduces quantitative risk assessment.

Applied epidemiology 804 (EPL 804)

Qualification	Postgraduate
Module credits	12.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	EPL 803
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

Skills training

This module is a hands-on theoretical and practical introduction to epidemiological modelling, including simulation modelling. It assumes successful completion of the basic and applied epidemiology modules.

Basic veterinary epidemiology 851 (EPL 851)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	A BVSc or equivalent qualification. Non-veterinary graduates will be considered under exceptional circumstances. Recommended: Grade 12 Mathematics.
Contact time	1 web-based period per week, 1 other contact session per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

An introductory module in veterinary epidemiology designed to provide a sound foundation in epidemiology that can be applied in practice and upon which further studies can be built. The module covers aspects of population medicine, disease outbreak investigation, clinical epidemiology, experimental studies, observational studies, surveys, basic analytical tools and diagnostic tests

Biostatistics in veterinary science 852 (EPL 852)

Qualification	Postgraduate

Module credits	20.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	BVSc or equivalent qualification and Grade 12 Mathematics.
Contact time	2 seminars per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

This module provides the student with a foundation in basic statistical methods commonly used by postgraduate students in veterinary science. It covers statistical building blocks, confidence intervals, hypothesis testing, chi-square procedures, regression and correlation, paired and pooled t-tests, analysis of variance and non-parametric tests.

Analytical veterinary epidemiology 853 (EPL 853)

Qualification	Postgraduate
Module credits	20.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	EPL 851 and EPL 852
Contact time	2 seminars per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 2

Module content

This module provides the student with further knowledge and skills in veterinary epidemiology and an introduction to certain more advanced statistical methods commonly used in veterinary science, including adjustment for confounding, multiple linear regression, logistic regression and survival analysis, and will provide the basis for further studies and research involving these techniques.

Animal health information management 855 (EPL 855)

Qualification	Postgraduate
Module credits	5.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	No prerequisites.

Contact time	1 web-based period per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This module covers the principles and practice of the collection, entry, storage, management and processing of animal health-related data. It provides the knowledge necessary to be able to effectively work with data in veterinary epidemiology and animal health research.

Scientific reasoning in veterinary epidemiology 856 (EPL 856)

Qualification	Postgraduate
Module credits	5.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	No prerequisites.
Contact time	1 web-based period per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

This module covers, using practical examples, the processes of scientific reasoning and critical thinking applicable to veterinary epidemiology, and equips the student to use clear lines of reasoning in developing and testing hypotheses and making inferences, and to be able to critically evaluate information presented in the literature.

Advanced topics in veterinary epidemiology 859 (EPL 859)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

This module consists of assignments, seminars, discussions, required reading and/or attendance of short courses on various specialised or advanced topics in veterinary epidemiology of interest to the student and relevant to the chosen research project. Activities are decided upon by the student, in consultation with and subject to approval by the supervisor

Mini-dissertation: Veterinary epidemiology 890 (EPL 890)

Qualification	Postgraduate
Module credits	120.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Mini-dissertation

Mini-dissertation: Veterinary epidemiology 891 (EPL 891)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MSc in Veterinary Science option Veterinary Epidemiology (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Mini-dissertation

Equine medicine and surgery 400 (EQM 400)

Qualification	Undergraduate
Module credits	19.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	All the modules of the first, second and third years of the BVSc programme.
Contact time	4 lectures per week for 28 weeks, 1 practical per week (5 weeks)

Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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.

Advanced equine practice 781 (EQM 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	70 hours (online and face-to-face)
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

BVSc graduates only.
Advanced theoretical study of equine surgery and training in the diagnosis, treatment and management of equine internal medical diseases with aim of acquiring in-depth knowledge of the principles and practice of equine internal medicine and surgery and its supporting disciplines.

Clinical pharmacology 701 (FAK 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced studies in veterinary clinical pharmacology studies pharmacotherapeutic features related to veterinary medicine and species-specific therapeutic objectives.

Mechanisms of drug action 702 (FAK 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Fundamentals of the pharmacokinetics and pharmacodynamics of veterinary drugs.

Clinical pharmacology 781 (FAK 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced studies in veterinary clinical pharmacology studies pharmacotherapeutic features related to veterinary medicine and species-specific therapeutic objectives.

Mechanisms of drug action 782 (FAK 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Fundamentals of the pharmacokinetics and pharmacodynamics of veterinary drugs.

Pharmacology 800 (FAK 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced theoretical, practical and experiential training in clinical and industrial pharmacology.

Advanced fundamentals of pharmacology 876 (FAK 876)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Programmes	MSc specialising in Veterinary Industrial Pharmacology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Scope and historical development of veterinary pharmacology.
Veterinary pharmaceutics and formulation theory.
Pharmacokinetic theory, pharmacokinetic analysis and modelling.
Bioequivalence theory and evaluation.
Physicochemical and molecular basis of drug action.
Dose response and calculation of dose response parameters.
Pharmacological modulation of organ and body functions.
Molecular basis of action and pharmacological effects of chemotherapeutic agents.
Adverse drug reactions, interactions and pharmacovigilance.
Comparative species pharmacology, pharmacogenomics and pharmacogenetics.
Background on complementary medicines.
Fundamentals of pharmacological research.

Mini-dissertation: Pharmacology 895 (FAK 895)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09

Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Physiology 701 (FSL 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

Advanced level, with the emphasis on applied and pathophysiology of disease.

Physiology 781 (FSL 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

Advanced level, with the emphasis on applied and pathophysiology of disease.

Small animal clinical behaviour 710 (GEN 710)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	BVSc, DVN (combined with RPL approval) and BVetNurs graduates only.

Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced study of low stress handling techniques the clinical approach to assessment, diagnosis and management of behaviour disorders in dogs and cats, including the role of behaviour in small animal welfare assessment in various contexts.Emphasis is placed on developing practical skills.

Small animal medicine 781 (GEN 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study in canine and feline medicine (non-internal organs). The module covers establishment of a minimum database, identification of problems, establishment of differential diagnoses, the logical selection of appropriate special procedures and clinical pathological analyses, logical interpretation of results and the understanding of the risk-benefit and financial implications of such special procedures for each organ system. Study of the conditions of internal organs is not included in this module.

Small animal medicine 782 (GEN 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study in canine and feline internal medicine specifically applicable to conditions of the internal organs. The module covers establishment of a minimum database, identification of problems, establishment of differential diagnoses, the logical selection of appropriate special procedures and clinical pathological analyses, logical interpretation of results and the understanding of the risk-benefit and financial implications of such special procedures for each organ system.

Small animal clinical behaviour 783 (GEN 783)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	BVSc, DVN (combined with RPL approval) and BVetNurs graduates only.
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced study of low stress handling techniques the clinical approach to assessment, diagnosis and management of behaviour disorders in dogs and cats, including the role of behaviour in small animal welfare assessment in various contexts.Emphasis is placed on developing practical skills.

Equine medicine 802 (GEN 802)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Equine Medicine (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced training in organ, metabolic and deficiency diseases of equines. Pathophysiology, diagnostic and treatment methods are emphasised.

Small animal medicine 803 (GEN 803)

Qualification	Postgraduate

Module credits	270.00
NQF Level	09
Programmes	MMedVet in Small Animal Medicine (Coursework)
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced theoretical and practical training in organ, metabolic and deficiency diseases of small animals. Pathophysiology, diagnostic and treatment methods are emphasised.

Mini-dissertation: Equine medicine 892 (GEN 892)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Equine Medicine (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Mini-dissertation: Small animal medicine 893 (GEN 893)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Small Animal Medicine (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

General surgery 310 (GNS 310)

Qualification	Undergraduate
Module credits	7.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]

Prerequisites	Admission into relevant programme and Third year academic level.
Contact time	2 lectures per week over 14 weeks, 3 practicals per week over 4 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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)

Qualification	Undergraduate
Module credits	30.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Third year academic level and admission to relevant programme.
Contact time	2 discussion classes per week over 25 weeks, 6 lectures per week 25 weeks, 6 demonstration sessions of 40 minutes
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	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.

Reproduction 800 (GSK 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Reproduction (Coursework)
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content
This module offers broad-based, in-depth experiential training that may be theoretical and practical on animal reproduction and is a requirement for the MMedVet (Reproduction) degree. Reproduction, as taught during the undergraduate veterinary curriculum and modules GSK 801 to GSK 804 serves as basis for advanced training in obstetrics, gynaecology, andrology and assisted reproduction of animals.

Reproductive physiology 801 (GSK 801)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	30 contact hours per semester
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content
This module will provide advanced theoretical study in and critical appraisal of the principles, concepts, current application and potential developments in selected aspects of reproductive physiology of animals with a strong focus on the common domestic species as specified in modules GSK 806 to GSK 809.

Bovine reproduction 806 (GSK 806)

Qualification	Postgraduate
Module credits	25.00
NQF Level	09
Prerequisites	GSK 801
Contact time	50 contact hours
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content
This module will provide advanced theoretical study in the reproduction of cattle, including the physiology and endocrinology of reproduction; monitoring, aspects of assisting and controlling their reproduction; managing diseases and malfunctions of reproduction and the evaluation of bulls and cows for breeding soundness.

Small stock reproduction 807 (GSK 807)

Qualification	Postgraduate
Module credits	25.00

NQF Level	09
Prerequisites	GSK 801
Contact time	50 contact hours
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

This module will provide advanced theoretical study in the reproduction of sheep and goats, including the physiology and endocrinology of reproduction; monitoring, aspects of assisting and controlling their reproduction; managing diseases and malfunctions of reproduction and the evaluation of males, bucks, ewes and nanny goats for breeding soundness.

Equine reproduction 808 (GSK 808)

Qualification	Postgraduate
Module credits	25.00
NQF Level	09
Prerequisites	GSK 801
Contact time	50 contact hours
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 2

Module content

This module will provide advanced theoretical study in the reproduction of mares and stallions, including the physiology and endocrinology of reproduction; monitoring, aspects of assisting and controlling their reproduction; managing diseases and malfunctions of reproduction and the evaluation of stallions and mares for breeding soundness.

Small animal reproduction 809 (GSK 809)

Qualification	Postgraduate
Module credits	25.00
NQF Level	09
Prerequisites	GSK 801
Contact time	50 contact hours
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This module will provide advanced theoretical study in the reproduction of dogs and cats, including the physiology and endocrinology of reproduction; monitoring, aspects of assisting and controlling their reproduction; managing diseases and malfunctions of reproduction and the evaluation of dogs and bitches for breeding soundness.

Wildlife reproduction 810 (GSK 810)

Qualification	Postgraduate
Module credits	25.00
NQF Level	09
Prerequisites	GSK 801
Contact time	50 contact hours
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This module will provide advanced theoretical study in the physiology and endocrinology of reproduction and reproductive patterns of wildlife, the monitoring of their reproduction, the development of breeding programmes for them and contraception, as well as diseases and malfunctions of reproduction and the evaluation of males and females for breeding soundness.

Mini-dissertation 891 (GSK 891)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Reproduction (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The aim of the module is to let the student experience and work through the scientific research process, starting with the formulation of a research question in the field of animal reproduction and ending with reporting the research in a mini-dissertation and an article of sufficient merit to submit to an approved scientific journal.

Introductory genetics 161 (GTS 161)

Qualification	Undergraduate
Module credits	8.00

NQF Level	05
Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Information Technology in Information and Knowledge Systems BSc in Medical Sciences BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Veterinary Science [BVSc]
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Veterinary Science
Prerequisites	MLB 111 GS
Contact time	fortnightly tutorials, 2 lectures per week
Language of tuition	Module is presented in English
Department	Biochemistry, Genetics and Microbiology
Period of presentation	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.

General vector-borne diseases 815 (GVD 815)

Qualification	Postgraduate
Module credits	12.00

NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

The module gives an overview of the most important vectors and vector borne diseases, their importance and insight on the importance of the biology of the vectors on the transmission of the micro-organisms they transmit.

Herd and primary animal health 701 (HAH 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The module will enable students to integrate and apply knowledge so that health and production problems can be identified and solved on a herd basis, while health status and production effectiveness can be improved from a holistic and cost effective viewpoint. The module will also include aspects of primary animal health care that will be applicable to needs of the emerging farming sector.

Herd and primary animal health 781 (HAH 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The module will enable students to integrate and apply knowledge so that health and production problems can be identified and solved on a herd basis, while health status and production effectiveness can be improved from a holistic and cost effective viewpoint. The module will also include aspects of primary animal health care that will be applicable to needs of the emerging farming sector.

Project management in health 870 (HCS 870)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Service modules	Faculty of Veterinary Science
Prerequisites	HME 870
Contact time	1 lecture per week, 1 practical per week, 1 other contact session per week, 1 discussion class per week, 1 seminar per week
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Introduction to monitoring and evaluation for health managers 870 (HIN 870)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	16 lectures per week, 1 practical per week
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Module content

This is an introductory module on Monitoring and Evaluation (M&E) designed to provide students with knowledge, attitudes and skills regarding M&E frameworks, health information and data systems and indicators, evaluation designs, development of M&E plans, data collection, processing and use and feedback of M&E results, within the context of health systems strengthening. At the end of the module the student should be able to define M&E concepts in the context of health systems strengthening; describe M&E frameworks; design an M&E plan; understand health information systems and data collection, processing and understand how M&E results can be used for health systems strengthening.

Monitoring and evaluation 873 (HME 873)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	2 lectures per week, 4 discussion classes per week, 1 practical per week, 4 seminars per week
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Histology 701 (HTY 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

An in-depth comparative study of light and electron microscopic histology of domestic animals, birds and selected wildlife species.

Histology 781 (HTY 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Module content

An in-depth comparative study of light and electron microscopic histology of domestic animals, birds and selected wildlife species.

Introductory veterinary diagnostics 300 (IVD 300)

Qualification	Undergraduate
Module credits	20.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Third year academic level and admission to relevant programme.
Contact time	6 practicals per semester, 3 lectures per week
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.

Clinical laboratory diagnostics 800 (KDK 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Clinical Laboratory Diagnostics (Coursework)
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Advanced training in veterinary clinical laboratory diagnostics including theoretical as well as practical knowledge of clinical biochemistry, clinical endocrinology, haematology, cytology, capita selecta aspects of: diagnostic bacteriology; diagnostic virology; diagnostic immunology; diagnostic protozoology; diagnostic toxicology and diagnostic parasitology; quality control; applied biometry; electronics/optics of laboratory equipment, and computer use.

Mini-dissertation: Clinical laboratory diagnostics 890 (KDK 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09

Programmes	MMedVet in Clinical Laboratory Diagnostics (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Small stock herd health 800 (KKS 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Small Stock Herd Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Specialised training based on farm visits, discussions, seminars and case studies.
Specialised integration and application of knowledge so that health and production problems can be identified and solved on a herd basis, and health status and production effectiveness of small stock herds can be raised from a holistic and cost-effective viewpoint, within a broad spectrum of sheep and goat-farming systems and feedlots.

Mini-dissertation: Small stock herd health 890 (KKS 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Small Stock Herd Health (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Clinical pathology 704 (KPA 704)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08

Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in clinical pathology including enzymology, cytology, haematology as well as clinical pathology of the kidney in domestic animals.

Clinical pathology 705 (KPA 705)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)

Advanced study in clinical pathology including proteins, blood-gas and acid-base balance, gastro-enterology, haemostasis, and diagnostic test characteristics in domestic animals.

Clinical pathology 784 (KPA 784)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in clinical pathology including enzymology, cytology, haematology as well as clinical pathology of the kidney in domestic animals.

Clinical pathology 785 (KPA 785)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced study in clinical pathology including proteins, blood-gas and acid-base balance, gastro-enterology, haemostasis, and diagnostic test characteristics in domestic animals.

Laboratory animal science 702 (LAS 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Section 1: (10 credits)
Application of procedures within an accredited laboratory animal facility, with focus on laboratory animal management (rats and mice), including housing and care; enrichment; breeding; methods of dosing and methods of sample collection.

Section 2: (20 credits)
The biology of laboratory animals, their management and use as models in biomedical research.
The aim is to extend the activities concerning the care and use of laboratory animals for research, training and testing. Further to affirm the concept on which the modern practice of experimenting with animals is based, to take into consideration the controversy evoked in the climate of animal rights. The special professional role required of the veterinary and paraveterinary professions to enhance humane practice with regard to animal experiments as well as the promotion of a productive scientific effort in the biomedical sciences.

Laboratory diagnostics procedures 703 (LAS 703)

Qualification	Postgraduate
Module credits	30.00

NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

The module will focus on basic tests available in laboratory diagnostics for infectious and parasitic diseases. Focus will be placed on the interpretation of tests, issuing of certificates, validation of test procedures, quality assurance and laboratory safety. The course will include basic within the laboratory of the department.

Research ethics for laboratory animal science 704 (LAS 704)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

An advanced module in research methodology for veterinarians involved in laboratory animals and/or laboratory work. The study will focus on animal ethics, animal ethics committee, evaluation of protocols and study design. Focus will also be placed on legislation for the use and protection of animals.

Laboratory animal science 782 (LAS 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Section 1: (10 credits)
Application of procedures within an accredited laboratory animal facility, with focus on laboratory animal management (rats and mice), including housing and care; enrichment; breeding; methods of dosing and methods of sample collection.

Section 2: (20 credits)
The biology of laboratory animals, their management and use as models in biomedical research.
The aim is to extend the activities concerning the care and use of laboratory animals for research, training and testing. Further to affirm the concept on which the modern practice of experimenting with animals is based, to take into consideration the controversy evoked in the climate of animal rights. The special professional role required of the veterinary and paraveterinary professions to enhance humane practice with regard to animal experiments as well as the promotion of a productive scientific effort in the biomedical sciences.

Laboratory diagnostics procedures 783 (LAS 783)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

The module will focus on basic tests available in laboratory diagnostics for infectious and parasitic diseases. Focus will be placed on the interpretation of tests, issuing of certificates, validation of test procedures, quality assurance and laboratory safety. The course will include basic within the laboratory of the department.

Research ethics for laboratory animal science 784 (LAS 784)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

An advanced module in research methodology for veterinarians involved in laboratory animals and/or laboratory work. The study will focus on animal ethics, animal ethics committee, evaluation of protocols and study design. Focus will also be placed on legislation for the use and protection of animals.

Nursing professional life 100 (LPN 100)

Qualification	Undergraduate
Module credits	15.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	9 online lectures for 5 weeks, 12 lectures per week for 3.5 weeks, 6 practicals per week for 1 week, 6 discussion classes per week for 1 week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Veterinary terminology and the correct usage thereof. Career paths in the veterinary nursing profession. Collegiality and professional associations, veterinary-related laws and professional ethics. Introduction to wellness management. An introduction to establishing, implementing, monitoring and evaluating sustainable quality co-operative partnerships with communities and providing consistent veterinary nursing input in order to improve animal health and welfare within a One Health Context. This theoretical background is applied practically in a community engagement activity. Opportunity to interact with professionals and community partners working in developing communities, important communication skills with people from a wide variety of backgrounds. An introduction to research methodology, including defining a research question, research design, sampling design, methods of data collection, data analysis and interpretation and report writing. Aspects of animal welfare science and animal protection applied to companion animals (cats, dogs, horses) and production animals (cattle, sheep, pigs), and human-animal interactions.

Nursing professional life 210 (LPN 210)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	23 lectures per week for 2 weeks, 1.5 other contact session per week, 3 discussion classes per week over 2 weeks
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

Communication for veterinary nurses. Self-awareness, self-management, social awareness, professionalism, gender based violence and relationship management. Cultural diversity. Information management. Practice management for veterinary nurses, including relevant marketing, promotion and sales, human resources management work place discipline, rewards for good work performance and application of the Labour Law in the work place, strategic client service and management, compassion fatigue and its components. Continuation of a portfolio as evidence of learning.

Nursing professional life 300 (LPN 300)

Qualification	Undergraduate
Module credits	8.00
NQF Level	07
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Third year academic level.
Contact time	2 weeks of guided self-study
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

A portfolio as evidence of learning is required to show that throughout the three-year degree programme, graduates developed the skills and competencies required to enable the veterinary nurse to be a consummate professional, capable of dealing with the diverse challenges of veterinary nursing professional and everyday life.

Language and study skills 110 (LST 110)

Qualification	Undergraduate
Module credits	6.00
NQF Level	05

Programmes	BSc in Actuarial and Financial Mathematics BSc in Applied Mathematics BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Ecology BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geoinformatics BSc in Geology BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology, Genetics and Psychology BSc in Mathematical Statistics BSc in Mathematics BSc in Medical Sciences BSc in Meteorology BSc in Microbiology BSc in Physics BSc in Plant Science BSc in Zoology BScAgric in Agricultural Economics in Agribusiness Management BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Plant Pathology Bachelor of Consumer Science in Food Retail Management [BConSci] Bachelor of Consumer Science in Hospitality Management [BConSci] Bachelor of Consumer Science specialising in Clothing Retail Management [BConSci] Bachelor of Veterinary Nursing [BVetNurs] Bachelor of Veterinary Science [BVSc]
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.

Molecular and cell biology 111 (MLB 111)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05
Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Computer Science BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Information Technology in Information and Knowledge Systems BSc in Medical Sciences BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Physics BSc in Physics 4-year programme BSc in Plant Science BSc in Zoology BScAgric in Agricultural Economics in Agribusiness Management BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Dental Surgery [BChD] Bachelor of Dietetics [BDietetics] Bachelor of Medicine and Surgery [MBChB] Bachelor of Veterinary Science [BVSc]
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	A candidate who has passed Mathematics with at least 60% in the Grade 12 examination

Contact time	4 lectures per week, 1 practical/tutorial per week
Language of tuition	Module is presented in English
Department	Biochemistry, Genetics and Microbiology
Period of presentation	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.

Molecular and cell biology 133 (MLB 133)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	Admission to the relevant programme.
Contact time	Fortnightly discussions, 2 lectures per week, Foundation Course, Fortnightly practicals
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 1

Module content

Introduction to life science and life on earth, including the importance and relevance of the Sustainable Development Goals; the scientific method, principles of microscopy, introduction to the molecular structure and function of the cell. Basic chemistry of the cell. Structure and composition of prokaryotic and eukaryotic cells.

Molecular and cell biology 143 (MLB 143)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	Admission to the relevant programme.

Contact time	Fortnightly discussions, 2 lectures per week, Fortnightly practicals, Foundation Course
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 2

Module content

Ultrastructure and function of cellular organelles, membranes and the cytoskeleton. General principles of energy, enzymes and cell metabolism including selected cellular processes, e.g. respiration and photosynthesis.

Medical terminology 180 (MTL 180)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Programmes	BA in Audiology BA in Speech-Language Pathology Bachelor of Dental Surgery [BChD] Bachelor of Medicine and Surgery [MBChB] Bachelor of Nursing Science [BNurs] Bachelor of Occupational Therapy [BOT] Bachelor of Radiography in Diagnostics [BRad in Diagnostics] Bachelor of Sports Science [BSportSci] Bachelor of Veterinary Science [BVSc]
Service modules	Faculty of Health Sciences 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	Ancient and Modern Languages and Cultures
Period of presentation	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.

Wildlife management and production 800 (NLB 800)

Qualification	Postgraduate
Module credits	20.00

NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

This module covers wildlife management topics of husbandry (wildlife production systems, nutrition, housing and breeding) and wildlife management techniques (fire, fencing, captive management and animal welfare). The module will teach skills and tools of wildlife management.

Wildlife ecology 810 (NLB 810)

Qualification	Postgraduate
Module credits	20.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Language of tuition	Module is presented in English
Department	Zoology and Entomology
Period of presentation	Semester 1

Module content

A module on plant ecology, veld management, animal ecology and plant and animal interactions. The students will gain a solid grounding and in-depth understanding of ecological theory and ecological management to maintain and improve ecosystem health. This module will provide a broad view, illustrating a wide variety of different ecosystem examples and will include in-field training in areas around HHWRS.

Necropsy technique and interpretation 701 (NTI 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)

An advanced module in necropsy techniques, interpretation and specimen collection.

Necropsy technique and interpretation 781 (NTI 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
An advanced module in necropsy techniques, interpretation and specimen collection.

Ophthalmology 701 (OFM 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
The module covers the anatomy and physiology of the eye and its adnexa, examination techniques and aids, ocular therapeutics and treatment techniques, surgical and non-surgical conditions of the orbit, eyelids, third eyelid, conjunctiva, lachrymal system, cornea, sclera, anterior chamber, uvea lens, vitreous and retina, and hereditary diseases. Practical work includes the use of instrumentation and accessories during examination and surgical procedures. page

Ophthalmology 781 (OFM 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08

Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

(BVSc graduates only)
The module covers the anatomy and physiology of the eye and its adnexa, examination techniques and aids, ocular therapeutics and treatment techniques, surgical and non-surgical conditions of the orbit, eyelids, third eyelid, conjunctiva, lachrymal system, cornea, sclera, anterior chamber, uvea lens, vitreous and retina, and hereditary diseases. Practical work includes the use of instrumentation and accessories during examination and surgical procedures. page

Ophthalmology 800 (OFM 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Ophthalmology (Coursework)
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

An advanced theoretical, practical and experiential module in ophthalmology of domestic animals (large and small animals).

Mini-dissertation: Ophthalmology 890 (OFM 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Ophthalmology (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Introduction to One Health 810 (OHB 810)

Qualification	Postgraduate
Module credits	18.00

NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

This module will introduce students to the philosophy and practice of "One Health", an approach that recognises that the health and well-being of humans, domestic animals, wildlife and the ecosystems in which they live and function and intrinsically connected.

Globalisation and health 812 (OHB 812)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Quarter 2

Module content

The module is organised in 3 learning blocks including an assessment at the end of the 3rd week.
In the first block ‘Introduction to the globalisation and health nexus’, students will be familiarised with practical and theoretical debates about processes of globalisation, the global political economy, power and how these processes impact on health and people’s access to health services in very different settings.
In the second block ‘Global health governance and its paradigms’ we examine in detail the respective approaches, actors and their interrelations that are most prominent in global health policy and cooperation. These approaches (paradigms) include trade; security, economic development; public health; humanitarian aid and poverty reduction; human rights and equity; planetary boundaries and climate change.
In the second and third block ‘Persistent problems, new challenges’ we will focus on specific case studies such as, commercial determinants of NCD’s, health workforce migration; the adaptation in communities to innovation and the introduction of modern diagnostics; urban health and environmental pollution; different perspective on sexual and reproductive health rights. Deconstructing the different paradigms, learning from the different case-studies will deepen the understanding of the globalisation and health nexus, including pathways, the governance and actions to overcome/tackle them.The role of (global) civil society and local actors in reducing global health equity will also be discussed.

Outbreak investigations and research 815 (OHB 815)

Qualification	Postgraduate

Module credits	15.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

A set of interdisciplinary sessions will assist the students to gain new insights in outbreak investigation and research which can support outbreak control.
In the first part of the module, emphasis will be on introducing the different theoretical and operational concepts, using exercises to practice hands-on skills, such as

- 10 steps of outbreak investigation
- surveillance and early warning
- geographical information systems
- involving stakeholders, communities, health systems
- evaluation methods, data management
- ethics

In the second part, we will go more in depth by unravelling research opportunities and discussing the challenges, the specificities and impact of investigations and research during outbreaks through disease-specific examples. We will discuss infectious disease outbreaks of rare pathogens (e.g. Ebola), often neglected outbreaks (e.g. Cholera), nosocomial outbreaks (e.g. Antimicrobial resistance -related), vector-borne disease outbreaks (e.g. Chikungunya), as well as discuss Covid-19 related investigations and research. In all examples we will focus on multi- and interdisciplinarity in outbreak investigation, control and research.

Molecular data for infectious diseases 816 (OHB 816)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

MID is a module for molecular biologists on the implementation of molecular techniques, and more specifically the use of molecular data in tropical lowresource settings. In MID, molecular techniques and data are discussed in the context of clinical and epidemiological field studies on infectious diseases.
Pathogen and vector identity, dynamics, and transmission often form an integral part of such studies. These phenomena can be documented using DNA and RNA techniques. Despite rapid advancements in molecular methods, their implementation in low-resource environments often remains cumbersome due to logistic, financial, and human resource constraints. MID focusses on the selection and analysis of appropriate assays and their implementation in a particular research setting.
Participants work in small groups to critically discuss peer-reviewed papers and to develop their own protocol and implementation plan. The focus of the module is to select and validate an appropriate molecular method in the study context, and to implement that method in the given setting for optimal qualitative data acquisition and analysis.

Primary animal health care 110 (PAH 110)

Qualification	Undergraduate
Module credits	18.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	24 lectures per week for 5 weeks, 4 practicals per week for 5 weeks
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1

Module content

Breeding, feeding, handling and husbandry or care of domestic animals (cats, dogs, horse, cattle, sheep, pigs). Important parasitic and infectious diseases of domestic animals, including relevant immunology, food safety and zoonotic diseases.

Production animal management 701 (PAM 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies

Period of presentation	Year

Module content

The module content includes the study of animal genetics, nutrition, management, housing, keeping of records, hygiene, welfare and behaviour, with special emphasis on nutrition. The species concerned are dairy cattle, beef cattle, small stock and pigs.

Production animal management 781 (PAM 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The module content includes the study of animal genetics, nutrition, management, housing, keeping of records, hygiene, welfare and behaviour, with special emphasis on nutrition. The species concerned are dairy cattle, beef cattle, small stock and pigs.

Mechanisms of disease 711 (PAT 711)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)

An advanced module covering the mechanisms behind disease processes.

Mechanisms of disease 781 (PAT 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08

Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
An advanced module covering the mechanisms behind disease processes.

Pathology 800 (PAT 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Pathology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Pathology 800 is structured to train specialist veterinary pathologists, competent in the fields of diagnostic pathology and basic research principles, and to focus mainly on diseases and conditions in sub-Saharan domestic animals and wildlife. The course content deals with general and organ pathology, diseases and conditions of the various species. Within this 3-year period, 90 weeks of consecutive practical training, as required by the South African Veterinary Council, must be undertaken.

Pathology: Wildlife 806 (PAT 806)

Qualification	Postgraduate
Module credits	28.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

The emphasis of the module is on practical diagnostic pathology (including forensic pathology) and its outcomes will enable a veterinarian to investigate disease and the cause of death in wildlife. The approach will emphasise the following: After conducting a necropsy, a diagnosis is finalised by also considering the results of other diagnostic tests and ancillary data; when it is not possible to make a final diagnosis, the formulation of a list of differential diagnoses and a strategy to resolve the problem; compiling interim and final report(s) that are scientifically sound, presentable to a court of law and reflect a degree of professionalism that is commensurate with a professional person. The theoretical component includes selected information dealing with incidental findings and 'non-lesions', species-specific infectious diseases, and non-infectious diseases.

Necropsy technique and interpretation 807 (PAT 807)

Qualification	Postgraduate
Module credits	28.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

An advanced module in necropsy techniques, interpretation and specimen collection.

Mini-dissertation: Pathology 890 (PAT 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Pathology (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Laboratory animal science 800 (PFK 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Laboratory Animal Science (Coursework)
Prerequisites	No prerequisites.

Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

An advanced module in the role of the veterinarian in laboratory animal medicine and practical aspects relating to the promotion of a productive scientific effort in the biomedical sciences.

Mini-dissertation: Laboratory animal science 890 (PFK 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Laboratory Animal Science (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Porcine health and production 510 (PHP 510)

Qualification	Undergraduate
Module credits	5.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme
Contact time	3 lectures per week for 7 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

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

Poultry health and production 800 (PHP 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Poultry Diseases (Coursework)

Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced training in poultry health and production.

Physics for biology students 131 (PHY 131)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05
Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Biochemistry BSc in Biotechnology BSc in Computer Science BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Medical Sciences BSc in Microbiology BSc in Plant Science BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Dental Surgery [BChD] Bachelor of Medicine and Surgery [MBChB] Bachelor of Physiotherapy [BPhysio] Bachelor of Sports Science [BSportSci] Bachelor of Veterinary Science [BVSc]
Service modules	Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	A candidate must have passed Mathematics with at least 60% in the Grade 12 examination
Contact time	1 discussion class per week, 1 practical per week, 4 lectures per week

Language of tuition	Module is presented in English
Department	Physics
Period of presentation	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.

Poultry health and production 510 (PLY 510)

Qualification	Undergraduate
Module credits	5.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme
Contact time	3 lectures per week for 7 weeks
Language of tuition	Module is presented in English
Department	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.

Practice management and veterinary drug legislation and control 781 (PPH 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Theoretical and practical training in specific areas of business management and drug legislation. The course deals with the basic principles of veterinary practice management with emphasis on the role of the veterinary nurse and includes practice management as a career enhancement for veterinary nurses.

Veterinary nursing practice 110 (PVN 110)

Qualification	Undergraduate
Module credits	12.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	4 practicals per week for 3 weeks, 20 lectures per week for 3 weeks
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Semester 1

Module content

Essential nursing practices including disinfection and hospital hygiene, hospitalisation, basic nursing practices, observation and clinical examination of patients and occupational safety aspects. Fundamental pharmacology including medicine administration, storage and handling, drug regulations, dispensing, calculations, pharmacotherapeutics, pharmacokinetics and pharmacodynamics. The pharmacology of organ systems.

Veterinary nursing practice 120 (PVN 120)

Qualification	Undergraduate
Module credits	15.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	17 lectures per week for 3.5 weeks, 1 discussion class per week, 2,5 practicals per week for 2 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Semester 2

Module content

Diagnostic procedures involving veterinary nurses, including diagnostic imaging, clinical pathology and other laboratory test, sample taking and sample management. Introduction to the general principles of animal physical rehabilitation procedures.

Veterinary nursing practice 200 (PVN 200)

Qualification	Undergraduate
Module credits	6.00
NQF Level	06
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Second year academic level.
Contact time	7.5 clinical practicals per week for 12 weeks, Yes
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Experiential learning: a practical application of the theoretical aspects of veterinary nursing practice. Experiential learning and experience will be gained by means of the Onderstepoort Skills Laboratory and limited exposure to clinic rotations in the Onderstepoort Veterinary Academic Hospital.

Veterinary nursing practice 300 (PVN 300)

Qualification	Undergraduate
Module credits	160.00
NQF Level	07
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme and Third year academic level.
Contact time	Yes, 38 practicals for 42 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Experiential learning: a practical application of the theoretical aspects of veterinary nursing practice covered in the curriculum of the BVetNurs programme. Topics include medical nursing, surgical nursing, intensive care nursing, reproduction, animal physical rehabilitation, diagnostic imaging, ophthalmology, dentistry, theatre practice, anaesthesiology and veterinary nursing professional life skills. Community-based practical sessions provide an opportunity to develop clinical and life skills. Domestic animals exposed to include cats, dogs, cattle, small stock, horses and exotic animals/wildlife. The emphasis of practical exposure is on attaining of the Day One Competencies for graduating veterinary nursing professionals.

Poultry health and nutrition 701 (PVT 701)

Qualification	Postgraduate
Module credits	30.00

NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced training in poultry health, production systems and nutrition.

Poultry health and nutrition 781 (PVT 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced training in poultry health, production systems and nutrition.

Mini-dissertation: Poultry diseases 890 (PVT 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Poultry Diseases (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Qualitative research methods 870 (QHR 870)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09

Programmes	Master of Public Health [MPH]
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health
Period of presentation	Year

Reproductive biology 701 (RPT 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Includes the physiology and endocrinology of puberty, the oestrous cycle, pregnancy, parturition, the puerperium, as well as that of the foetus and the neonate. Also included are the physiology and endocrinology of the bull, more specifically that of puberty, spermatogenesis, the scrotum, the accessory sex glands, libido, erection, coitus, sperm and semen. Also included are certain aspects of reproductive biotechnology, namely the biotechnical aspects of collection, examination and freezing of semen and embryos, embryo transfer and in vitro fertilisation.

Reproductive physiology of animals 702 (RPT 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Students will gain advanced theoretical knowledge of general reproductive endocrinology and physiology of animals. It includes detailed knowledge and application of the structures of different hormone groups, forms of storage, transportation, methods of action and secretion control mechanisms: hormonal control of female reproductive cycles; fertilisation, sexing, gestation, pathogenesis of teratogenic deviations and partus, the puerperal period and re-implantation; male reproductive endocrinology and physiology; examining of fresh and frozen semen, including advanced methods; the use of hormone profiles to monitor gestation and cycles, and artificial breeding.

Reproductive biology 781 (RPT 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Includes the physiology and endocrinology of puberty, the oestrous cycle, pregnancy, parturition, the puerperium, as well as that of the foetus and the neonate. Also included are the physiology and endocrinology of the bull, more specifically that of puberty, spermatogenesis, the scrotum, the accessory sex glands, libido, erection, coitus, sperm and semen. Also included are certain aspects of reproductive biotechnology, namely the biotechnical aspects of collection, examination and freezing of semen and embryos, embryo transfer and in vitro fertilisation.

Reproductive physiology of animals 782 (RPT 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Students will gain advanced theoretical knowledge of general reproductive endocrinology and physiology of animals. It includes detailed knowledge and application of the structures of different hormone groups, forms of storage, transportation, methods of action and secretion control mechanisms: hormonal control of female reproductive cycles; fertilisation, sexing, gestation, pathogenesis of teratogenic deviations and partus, the puerperal period and re-implantation; male reproductive endocrinology and physiology; examining of fresh and frozen semen, including advanced methods; the use of hormone profiles to monitor gestation and cycles, and artificial breeding.

Ruminant medicine and surgery 510 (RUM 510)

Qualification	Undergraduate
Module credits	24.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
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)

Qualification	Undergraduate
Module credits	16.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
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.

Ruminant health and medicine 701 (RUM 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine

Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study in ruminant medicine specifically applicable to conditions of the gastrointestinal tract, liver and production diseases, liver, cardiovascular, respiratory and urinary system, skin, nervous system and musculo-skeletal system, skin and appendages.

Ruminant health and medicine 781 (RUM 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
Advanced theoretical study in ruminant medicine specifically applicable to conditions of the gastrointestinal tract, liver and production diseases, liver, cardiovascular, respiratory and urinary system, skin, nervous system and musculo-skeletal system, skin and appendages.

Ruminant health 801 (RUM 801)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	A BVSc, a four year BSc in Agriculture (Animal Science), Microbiology, Zoology or an equivalent degree
Contact time	1 seminar per week, 1 discussion class per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced theoretical training in ruminant health with emphasis on the pathophysiology, diagnosis, treatment and control of non-infectious diseases, specifically applicable to conditions of the gastro-intestinal tract, liver, production diseases, cardiovascular system, respiratory system, nervous system, musculo-skeletal system, skin and appendages.

Mini-dissertation: Ruminant health 890 (RUM 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Prerequisites	A BVSc, a four year BSc in Agriculture (Animal Science), Microbiology, Zoology or an equivalent degree; VRM 813
Contact time	20 Contact sessions
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Mini-dissertation

Small animal critical care 781 (SAC 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	30 Hours
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Module content

Theoretical and practical training in specific areas of small animal critical care for the veterinary nurse. Formulation and implementation of appropriate strategies to comply with relevant standards.

Small animal medicine and surgery 410 (SAS 410)

Qualification	Undergraduate
Module credits	21.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]

Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	1 practical per week for 2 weeks, 9 lectures per week for 14 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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)

Qualification	Undergraduate
Module credits	23.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	1 interactive case study per week for 14 weeks, 1 practical per week for 2 weeks, 9 lectures per week for 14 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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.

Communication in health 871 (SCC 871)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health Systems and Public Health

Period of presentation	Year

Small stock health 801 (SSH 801)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	1 discussion class per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

The module content will be based on advanced theoretical training in small stock health with emphasis on principles of population health and production programmes, animal health economics, monitoring health and production. The module will enable students to integrate and apply knowledge so that health and production problems can be identified and solved on a flock basis and health status and production effectiveness of small stock flock can be raised from a holistic and cost effective viewpoint.

Foundational veterinary sciences 110 (SVF 110)

Qualification	Undergraduate
Module credits	15.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]
Prerequisites	Admission into relevant programme.
Contact time	25 lectures per week, 4 weeks, 1 discussion class per week for 3 weeks
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Semester 1

Module content

Introductory anatomy, histology and physiology of the dog, cat, horse and ruminant. Applied ethology and communication of domestic animals (cats, dogs, horses, cattle, sheep, and pigs).

Foundational veterinary sciences 120 (SVF 120)

Qualification	Undergraduate
Module credits	15.00
NQF Level	05
Programmes	Bachelor of Veterinary Nursing [BVetNurs]

Prerequisites	Admission into relevant programme.
Contact time	25.5 lectures per week for 4 weeks
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Semester 2

Module content

Anatomy and physiology of the organ systems of the dog, cat, horse and ruminant.

Selected tick identification 815 (TCK 815)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training
The objective of this module is to provide the basic knowledge of the biology, ecology, life-cycles, and importance of ticks. There will be a practical session to acquire the necessary laboratory skills to identify ticks of companion animals, equids, ruminants and wildlife.

Organic and inorganic toxicology 705 (TOK 705)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced training on the most important and well-known plant, mycotoxins, zootoxicoses and organic and inorganic poisons.

Basic veterinary toxicology 706 (TOK 706)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Introduction to the underlying principles of toxicology. Includes training in laboratory based toxicity testing and methodology

Organic and inorganic toxicology 785 (TOK 785)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced training on the most important and well-known plant, mycotoxins, zootoxicoses and organic and inorganic poisons.

Basic veterinary toxicology 786 (TOK 786)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Introduction to the underlying principles of toxicology. Includes training in laboratory based toxicity testing and methodology

Toxicology 800 (TOK 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Toxicology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced theoretical study and specialised practical training in aspects of veterinary toxicology.

Mini-dissertation: Toxicology 890 (TOK 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Toxicology (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Veterinary toxicology 300 (TOX 300)

Qualification	Undergraduate
Module credits	14.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
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 toxicology: Organ/systems toxicology 801 (TOX 801)

Qualification	Postgraduate
Module credits	30.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

The objective of this module is to provide advanced training in veterinary toxicology, including plant poisoning syndromes, mycotoxicoses, organic and inorganic intoxications as well as zootoxicoses of veterinary importance. This will enable the candidate to develop proficiency in routine toxicological field investigations, treatment of intoxications, diagnostic procedures and to provide sound advice on preventative measures.

Academic orientation 108 (UPO 108)

Qualification	Undergraduate
Module credits	0.00
NQF Level	00
Programmes	Bachelor of Veterinary Nursing [BVetNurs] Bachelor of Veterinary Science [BVSc]
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Science Dean's Office
Period of presentation	Year

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

Qualification	Undergraduate
Module credits	8.00

NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Second year academic level and admission to relevant programme.
Contact time	6 hours of practicals per year, 3 lectures per week over 22 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	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)

Qualification	Undergraduate
Module credits	28.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Second year academic level and admission to relevant programme.
Contact time	6 lectures per week over 3 weeks S2, 21 dissection practicals per week over 3 weeks S2, 21 dissection practicals per week over 3 weeks S1, 6 lectures per week over 3 weeks S1
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	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 core practice 520 (VCP 520)

Qualification	Undergraduate
Module credits	52.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme
Contact time	Yes, 40 hours per week over 13 weeks
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 core practice 610 (VCP 610)

Qualification	Undergraduate
Module credits	52.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VCP 520. Final year academic level and admission to relevant programme.
Contact time	Yes, 40 hours per week over 13 weeks
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	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)

Qualification	Undergraduate
Module credits	52.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VCP 610. Final 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 and life skills. The emphasis of practical exposure will be on attaining of the Day One Competencies for graduating veterinary professionals.

Veterinary microbiology 210 (VEM 210)

Qualification	Undergraduate
Module credits	6.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
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 elective practice 520 (VEP 520)

Qualification	Undergraduate
Module credits	8.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
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.

Veterinary elective practice 610 (VEP 610)

Qualification	Undergraduate
Module credits	24.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VEP 520. Final year academic level and admission to relevant programme.
Contact time	40 hours per week over 5 weeks, Yes
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	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)

Qualification	Undergraduate
Module credits	16.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VEP 610. Final year academic level and admission to relevant programme.
Contact time	Yes, 40 hours per week over 4 weeks
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.

Veterinary ethology 202 (VET 202)

Qualification	Undergraduate
Module credits	18.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
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)

Qualification	Undergraduate
Module credits	6.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
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.

Veterinary infectious diseases 300 (VIP 300)

Qualification	Undergraduate
Module credits	14.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
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.

Veterinary industrial pharmacology 800 (VIP 800)

Qualification	Postgraduate
Module credits	50.00
NQF Level	09
Programmes	MSc specialising in Veterinary Industrial Pharmacology (Coursework)
Prerequisites	FAK 876
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Veterinary pharmaceutical discovery and development.
Non-clinical safety and preclinical toxicology. Clinical safety and efficacy evaluation. Good laboratory and clinical practices. Drug statutory and application requirement. Drug application submission. Regulatory procedures, evaluation and veterinary drug control. Drug residue risk assessment. Product planning, production management and quality assurance. Drug marketing, pricing and promotion. Technical services, training, extension, product support and complaint investigation.

Mini-dissertation: Veterinary industrial pharmacology 890 (VIP 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MSc specialising in Veterinary Industrial Pharmacology (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Porcine health, production and nutrition 701 (VKH 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced theoretical study in pig housing, nutrition and disease for animal housed both outdoor and intensive, specifically applicable to conditions of Southern Africa.

Porcine health, production and nutrition 781 (VKH 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Advanced theoretical study in pig housing, nutrition and disease for animal housed both outdoor and intensive, specifically applicable to conditions of Southern Africa.

Pig herd health 800 (VKH 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Pig Herd Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content
Specialised training based on farm visits, discussions, seminars and case studies. Integration and application of knowledge so that health and production problems can be identified and solved on a herd basis, and health status and production effectiveness of pig herds can be raised within a wide spectrum of pig-farming systems.

Mini-dissertation: Pig herd health 890 (VKH 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Pig Herd Health (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Principles of animal nutrition 224 (VKU 224)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
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 principles of auditing 701 (VLP 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Contact time	70 hours (online and face-to-face)

Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
The following module will focus on auditing and compliance at the farm, abattoir and processing plant level.

Veterinary legislation and policy 702 (VLP 702)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

Broad-based training in understanding, interrogating and critically applying veterinary policy (including applicable South African legislation), and international phytosanitary and sanitary policy and trade.

Veterinary risk assessment 703 (VLP 703)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
The module will introduce concepts in risk assessment, risk management and risk communication.

Veterinary principles of auditing 781 (VLP 781)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Contact time	70 hours (online and face-to-face)
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

(BVSc graduates only)
The following module will focus on auditing and compliance at the farm, abattoir and processing plant level.

Veterinary legislation and policy 782 (VLP 782)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	70 contact hours
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Module content

Broad-based training in understanding, interrogating and critically applying veterinary policy (including applicable South African legislation), and international phytosanitary and sanitary policy and trade.

Veterinary risk assessment 783 (VLP 783)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

(BVSc graduates only)
The module will introduce concepts in risk assessment, risk management and risk communication.

Applied molecular biology 820 (VMB 820)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 2

Module content

Skills training

Theoretical and practical study in the principles and applications of PCR, cloning and DNA sequencing techniques.

Ethnoveterinary medicine 310 (VME 310)

Qualification	Undergraduate
Module credits	3.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Third year academic level and admission to relevant programme.
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	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.

One health 510 (VOH 510)

Qualification	Undergraduate
Module credits	4.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
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 physiology and histology 200 (VPH 200)

Qualification	Undergraduate
Module credits	33.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	1st year Physics and Chemistry. Second year academic level and admission to relevant programme.
Contact time	9 lectures per week for 21 weeks, 6 practicals per week for 10 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.

General veterinary pharmacology 300 (VPH 300)

Qualification	Undergraduate
Module credits	14.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Third year academic level and admission to relevant programme.
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 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 public health 510 (VPH 510)

Qualification	Undergraduate
Module credits	14.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
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 milk and meat hygiene 701 (VPH 701)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Programmes	PGDip in Veterinary Health Administration option Production Animals PGDip in Veterinary Health Administration option State Veterinary Medicine
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced knowledge and application of veterinary meat (Red meat, Poultry, Ostrich, Wild Game, Crocodiles and fish) and milk (Raw milk and milk products) hygiene and food safety (including Zoonotic / food borne diseases). Also includes auditing, certification for export and the applicable interpretation of laboratory results. Emerging and re-emerging diseases.

Veterinary milk and meat hygiene 791 (VPH 791)

Qualification	Postgraduate
Module credits	30.00
NQF Level	08
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Advanced knowledge and application of veterinary meat (Red meat, Poultry, Ostrich, Wild Game, Crocodiles and fish) and milk (Raw milk and milk products) hygiene and food safety (including Zoonotic / food borne diseases). Also includes auditing, certification for export and the applicable interpretation of laboratory results. Emerging and re-emerging diseases.

Veterinary public health: Meat hygiene 881 (VPH 881)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	10 practicals per week, 5 web-based periods per week
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

A coherent and critical understanding and application of the theory and research methodologies and techniques relevant to all aspects of red meat hygiene relating to prevention and control of zoonoses and other diseases transmitted by meat, welfare of livestock, pre-harvesting, harvesting and post-harvesting aspects of red meat production, practical application of HACCP relating to the specific activities, prevention and control of chemical residues in meat, including veterinary drug residues and appropriate national and international legislation. An understanding of how these relate to applied research relevant to industry or public health (including the ability to select and apply research methods effectively). Ability must be shown to rigorously critique and evaluate current research and participate in scholarly debates in this area of specialisation. Ability must be demonstrated to relate theory to practice and vice versa and to think epistemologically.

Veterinary public health: Poultry food hygiene 882 (VPH 882)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	5 web-based periods per week, 10 practicals per week
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

A coherent and critical understanding and application of the theory and research methodologies and techniques relevant to all aspects of poultry hygiene relating to prevention and control of zoonoses and other diseases transmitted by meat, eggs or other poultry products, welfare of poultry, pre-harvesting, harvesting and post-harvesting aspects of poultry meat or egg production, practical application of HACCP relating to the specific activities, prevention and control of chemical residues, including veterinary drug residues and appropriate national and international legislation. An understanding of how these relate to applied research relevant to industry or public health (including the ability to select and apply research methods effectively). Ability must be shown to rigorously critique and evaluate current research and participate in scholarly debates in this area of specialisation. Ability must be demonstrated to relate theory to practice and vice versa and to think epistemologically.

Veterinary public health: Veterinary milk hygiene 883 (VPH 883)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	10 practicals per week, 5 web-based periods per week
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

A coherent and critical understanding and application of the theory and research methodologies and techniques relevant to all aspects of milk hygiene relating to prevention and control of zoonoses and other diseases transmitted by milk, or other dairy products, welfare of livestock, pre-harvesting, harvesting and post-harvesting aspects of milk production or dairy products, practical application of HACCP relating to the specific activities, prevention and control of chemical residues, including veterinary drug residues and appropriate national and international legislation. An understanding of how these relate to applied research relevant to industry or public health (including the ability to select and apply research methods effectively). Ability must be shown to rigorously critique and evaluate current research and participate in scholarly debates in this area of specialisation. Ability must be demonstrated to relate theory to practice and vice versa and to think epistemologically.

Veterinary public health: Environmental health and biosecurity 884 (VPH 884)

Qualification	Postgraduate
Module credits	40.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	10 practicals per week, 5 web-based periods per week
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

A coherent and critical understanding and application of the theory and research methodologies and techniques relevant to control of zoonoses of environmental origin, biosecurity relating to food of animal origin and management of disasters and emergencies involving animals and animal products, safe collection and disposal of animal carcases, condemned meat or other animal products and animal wastes. The prevention, control and impact assessment of pollution by livestock production or industries, population control of animals in rural and urban environments to prevent zoonoses, occupational health of veterinary staff, management of the veterinary public health aspects of disasters and emergencies, evaluation of human-animal interactions and their impact on human health including animal facilitated therapy. An understanding of appropriate national and international legislation and how these relate to industry or public health (including ability to select and apply research methods effectively). Ability must be shown to rigorously critique and evaluate current research and participate in scholarly debates in this area of specialisation. Ability must be demonstrated to relate theory to practice and vice versa and to think epistemologically.

Mini-dissertation: Veterinary public health 890 (VPH 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Prerequisites	VRM 813

Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Mini-dissertation

Veterinary professional life 101 (VPL 101)

Qualification	Undergraduate
Module credits	4.00
NQF Level	05
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Admission into relevant programme.
Contact time	2 lectures every fortnight
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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.

Veterinary professional life 122 (VPL 122)

Qualification	Undergraduate
Module credits	4.00
NQF Level	05
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Second year academic level and admission to relevant programme
Contact time	Web-based learning
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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)

Qualification	Undergraduate
Module credits	5.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VPL 101, or simultaneous registration for VPL 122. Second year academic level and admission to relevant programme
Contact time	20 discussions, 18 lectures
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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.

Veterinary professional life 301 (VPL 301)

Qualification	Undergraduate
Module credits	6.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VPL 201. Third year academic level and admission to relevant programme
Contact time	28 lectures, 28 discussions, 14 other contact sessions
Language of tuition	Module is presented in English

Department	Veterinary Tropical Diseases
Period of presentation	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 professional life 401 (VPL 401)

Qualification	Undergraduate
Module credits	7.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VPL 301. Fourth year academic level and admission to relevant programme.
Contact time	1 discussion class per week over 9 weeks, 1 lecture per week over 7 weeks, 9 other contact sessions for 1 week
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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 professional life 511 (VPL 511)

Qualification	Undergraduate
Module credits	8.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	VPL 401.
Contact time	9 other contact sessions for 1 week, 3 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

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)

Qualification	Undergraduate
Module credits	8.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme.
Contact time	2 lectures per week, 2 weeks of research
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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.

Veterinary research report 600 (VRE 600)

Qualification	Undergraduate
Module credits	16.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Final year academic level and admission to relevant programme.
Contact time	3 contact sessions of 60 minutes, 5 weeks of guided self-study
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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.

Research methodology 812 (VRM 812)

Qualification	Postgraduate
Module credits	9.00
NQF Level	09
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1 and Semester 2

Module content

A web-based introductory module in research methodology that includes planning and undertaking a research project or clinical trial, collecting and analysing data, scientific writing, and enabling preparation and presenting of a research protocol.

Research methodology 813 (VRM 813)

Qualification	Postgraduate
Module credits	0.00
NQF Level	09
Programmes	MMedVet in Anaesthesiology (Coursework) MMedVet in Bovine Medicine (Coursework) MMedVet in Clinical Laboratory Diagnostics (Coursework) MMedVet in Diagnostic Imaging (Coursework) MMedVet in Equine Medicine (Coursework) MMedVet in Laboratory Animal Science (Coursework) MMedVet in Ophthalmology (Coursework) MMedVet in Pathology (Coursework) MMedVet in Pig Herd Health (Coursework) MMedVet in Poultry Diseases (Coursework) MMedVet in Reproduction (Coursework) MMedVet in Small Animal Medicine (Coursework) MMedVet in Small Animal Surgery (Coursework) MMedVet in Small Stock Herd Health (Coursework) MMedVet in Surgery option Equine Surgery (Coursework) MMedVet in Toxicology (Coursework) MMedVet in Veterinary Public Health (Coursework) MMedVet in Wildlife Diseases (Coursework) MSc in Veterinary Science MSc in Veterinary Science option Veterinary Epidemiology (Coursework) MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework) MSc specialising in Veterinary Industrial Pharmacology (Coursework)
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1 and Semester 2

Module content

A web-based introductory module in research methodology that includes planning and undertaking a research project or clinical trial, collecting and analysing data, scientific writing, and enabling preparation and presenting of a research protocol.

Research methodology 815 (VRM 815)

Qualification	Postgraduate
Module credits	10.00
NQF Level	09
Programmes	MSc specialising in Global One Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Semester 1 and Semester 2

Module content

A web-based introductory module in research methodology that includes planning and undertaking a research project or clinical trial, collecting and analysing data, scientific writing, and enabling preparation and presenting of a research protocol.

Veterinary reproduction 400 (VRP 400)

Qualification	Undergraduate
Module credits	14.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fourth year academic level and admission to relevant programme.
Contact time	1 practical per week for 20 weeks, 3 lectures per week over 26 weeks
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	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.

Veterinary parasitology 300 (VTP 300)

Qualification	Undergraduate
Module credits	20.00
NQF Level	07
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Third year academic level and admission to relevant programme.
Contact time	1 practical per week over 30 weeks, 4 lectures per week over 30 weeks
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	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.

Veterinary public health 800 (VVD 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Veterinary Public Health (Coursework)
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Module content

Specialised integration and application of knowledge within a single specific activity (core module) in Veterinary public health, including an approved research project.

Mini-dissertation: Veterinary public health 890 (VVD 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Veterinary Public Health (Coursework)
Prerequisites	VRM 813

Contact time	20 contact hours
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Mini-dissertation: Veterinary public health 895 (VVD 895)

Qualification	Postgraduate
Module credits	100.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Dissertation: Veterinary tropical diseases 801 (VWE 801)

Qualification	Postgraduate
Module credits	180.00
NQF Level	09
Programmes	MSc in Veterinary Science
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Veterinary Tropical Diseases
Period of presentation	Year

Dissertation: Anatomy and physiology 802 (VWE 802)

Qualification	Postgraduate
Module credits	180.00
NQF Level	09
Programmes	MSc in Veterinary Science
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Dissertation: Companion animal clinical studies 803 (VWE 803)

Qualification	Postgraduate

Module credits	180.00
NQF Level	09
Programmes	MSc in Veterinary Science
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Dissertation: Paraclinical sciences 804 (VWE 804)

Qualification	Postgraduate
Module credits	180.00
NQF Level	09
Programmes	MSc in Veterinary Science
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Dissertation: Production animal studies 805 (VWE 805)

Qualification	Postgraduate
Module credits	180.00
NQF Level	09
Programmes	MSc in Veterinary Science
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Thesis: Veterinary tropical diseases 901 (VWE 901)

Qualification	Postgraduate
Module credits	360.00
NQF Level	10
Programmes	PhD option Veterinary Tropical Diseases
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English

Department	Veterinary Tropical Diseases
Period of presentation	Year

Thesis: Anatomy and physiology 902 (VWE 902)

Qualification	Postgraduate
Module credits	360.00
NQF Level	10
Programmes	PhD option Anatomy and Physiology
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Anatomy and Physiology
Period of presentation	Year

Thesis: Companion animal clinical sciences 903 (VWE 903)

Qualification	Postgraduate
Module credits	360.00
NQF Level	10
Programmes	PhD option Companion Animal Clinical Studies
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Companion Animal Clinical Studies
Period of presentation	Year

Thesis: Paraclinical sciences 904 (VWE 904)

Qualification	Postgraduate
Module credits	360.00
NQF Level	10
Programmes	PhD option Paraclinical Sciences
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Paraclinical Sciences
Period of presentation	Year

Thesis: Production animal studies 905 (VWE 905)

Qualification	Postgraduate
Module credits	360.00

NQF Level	10
Programmes	PhD option Production Animal Studies
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Pasture science 213 (WDE 213)

Qualification	Undergraduate
Module credits	12.00
NQF Level	06
Programmes	Bachelor of Veterinary Science [BVSc]
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	Second year academic level and admission to relevant programme
Contact time	2 blocks with a total of 60 lectures
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	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.

Veterinary wildlife studies 800 (WLS 800)

Qualification	Postgraduate
Module credits	270.00
NQF Level	09
Programmes	MMedVet in Wildlife Diseases (Coursework)
Prerequisites	No prerequisites.
Contact time	1 discussion class per week, 1 seminar per week, 5 practicals per week
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Module content

Broad-based, in-depth theoretical and practical training with emphasis on the skills required to capture, transport and manage free-ranging and captive animals with due consideration of conservation ecology, the interaction of wildlife and domestic animals and the control of diseases of wildlife.

Wildlife health advanced 810 (WLS 810)

Qualification	Postgraduate
Module credits	20.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This in depth module covers wildlife diseases within the fields of identification, pathology, diagnostics and prevention. It also will cover epidemiology including geographical information systems, and an introduction to certain statistical methods commonly used in veterinary science, and will provide the basis for further studies and research involving these techniques. “One Health” philosophy and practices with a focus on community impacts of wildlife management practices will also be covered. It provides the student with good insight into the important infectious, non-infectious and parasitic diseases.

Transfrontier parks and conservation 811 (WLS 811)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1

Module content

Community engagement issues will be covered including community based natural resource management, community research and feedback and human wildlife conflict. Conservation (principles, animal protection methods, forensics and illegal wildlife trade), economics (basic economics, trade, wildlife income systems, marketing and funding), human resources, strategy, leadership and entrepreneurship will also be covered. The students will be exposed to a broad overview and detailed case-studies relevant to areas transfrontier conservation areas in sub-Saharan Africa.

Wildlife health introduction 812 (WLS 812)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This elective module is an introduction to wildlife diseases for students that have not done a veterinary degree. It provides students with an understanding of different disease groups, their life cycles, their pathogenesis, how they are identified and legislation relevant to disease control. It also covers Primary animal health care and veterinary public health relevant to wildlife management.

Wildlife veterinary specific 813 (WLS 813)

Qualification	Postgraduate
Module credits	15.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)
Prerequisites	BVSc or equivalent
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Semester 1 or Semester 2

Module content

This module will cover veterinary relevant topics to wildlife management and conservation areas such as disease diagnoses, treatment, prevention, immobilisation, tranquilisation and reproductive management as well as veterinary specific legislation. This module is for veterinary practitioners who want to focus their skills and careers in wildlife and conservation practice.

Mini-dissertation: Wildlife health, ecology and management 890 (WLS 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MSc in Veterinary Science option Wildlife Health, Ecology and Management (Coursework)

Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

African wildlife management and conservation 510 (WMC 510)

Qualification	Undergraduate
Module credits	5.00
NQF Level	08
Programmes	Bachelor of Veterinary Science [BVSc]
Prerequisites	Fifth year academic level and admission to relevant programme.
Contact time	10 discussion classes, 20 lectures
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	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.

Mini-dissertation: Wildlife diseases 890 (WSK 890)

Qualification	Postgraduate
Module credits	90.00
NQF Level	09
Programmes	MMedVet in Wildlife Diseases (Coursework)
Prerequisites	VRM 813
Language of tuition	Module is presented in English
Department	Production Animal Studies
Period of presentation	Year

Mathematics 134 (WTW 134)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05

Programmes	BCom specialising in Economics BEd in Senior Phase and Further Education and Training Teaching BSc in Biochemistry BSc in Biotechnology BSc in Computer Science BSc in Construction Management BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Environmental and Engineering Geology BSc in Food Management specialising in Culinary Science BSc in Food Management specialising in Nutrition BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Geoinformatics BSc in Geoinformatics 4-year programme BSc in Geology BSc in Geology 4-year programme BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Human Physiology, Genetics and Psychology BSc in Information Technology in Information and Knowledge Systems BSc in Medical Sciences BSc in Microbiology BSc in Plant Science BSc in Quantity Surveying BSc in Real Estate BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Veterinary Science
Prerequisites	50% for Mathematics in Grade 12
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 1

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 134 does not lead to admission to Mathematics at 200 level and is intended for students who require Mathematics at 100 level only. WTW 134 is offered as WTW 165 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.

Mathematics 165 (WTW 165)

Qualification	Undergraduate
Module credits	16.00
NQF Level	05
Programmes	BSc in Biochemistry BSc in Biotechnology BSc in Genetics BSc in Human Genetics BSc in Human Physiology BSc in Medical Sciences BSc in Microbiology BScAgric in Agricultural Economics in Agribusiness Management Bachelor of Veterinary Science [BVSc]
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)

Qualification	Undergraduate
Module credits	8.00
NQF Level	05
Programmes	BEd in Senior Phase and Further Education and Training Teaching BSc in Biochemistry BSc in Biotechnology BSc in Chemistry BSc in Chemistry 4-year programme BSc in Ecology BSc in Ecology 4-year programme BSc in Entomology BSc in Food Science BSc in Genetics BSc in Geography option Geography and Environmental Science BSc in Human Genetics BSc in Human Physiology BSc in Human Physiology 4-year programme BSc in Meteorology BSc in Meteorology 4-year programme BSc in Microbiology BSc in Plant Science BSc in Zoology BScAgric in Animal Science BScAgric in Applied Plant and Soil Sciences BScAgric in Applied Plant and Soil Sciences 5-year programme BScAgric in Plant Pathology BScAgric in Plant Pathology 5-year programme Bachelor of Veterinary Science [BVSc]
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
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).

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.