

University of Pretoria

Undergraduate Faculty Brochure

Veterinary Science

2012/13



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

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2012/13

www.up.ac.za



Message from the Dean

The uniqueness of the Faculty of Veterinary Science at Onderstepoort not only lies in the fact that it is the only one of its kind in South Africa, but that there is a unique spirit among our students to excel, compete and to be ultimately successful in what they do. They are making their presence known at all levels of student and academic life at the University of Pretoria.

This is emphasised by the fact that the Onderstepoort Veterinary and Para-Veterinary Student Council (OPVSC) was elected as best Faculty Student Council at the University of Pretoria for two consecutive years in 2009 and 2010.

The Faculty of Veterinary Science has the sole responsibility to train veterinarians and veterinary nurses who are indispensable to the country. It is also the leading veterinary faculty in Africa and enjoys wide-ranging international recognition.

Veterinary Science serves the health interests of farm animals, companion animals, wildlife and humans alike. It deals with the prevention, diagnosis and treatment of

animal diseases, the production of safe food and, through the control of diseases transmitted from animals to humans, the health of human beings. The quality of our training is such that graduates from this Faculty have no difficulty in competing for, and entering postgraduate programmes at universities in any country in the world. Our graduates are partners in, or principals of private practices, and occupy managerial positions in industry and public service across the world.

Our campus compares most favourably with the best in the world. It has five academic departments, an Equine Research Centre and a Centre for Veterinary Wildlife Studies. The Onderstepoort Veterinary Academic Hospital (OVAH) provides state-of-the-art facilities for the clinical departments and is the focus of the Faculty's clinical service-rendering activities to the surrounding community, as well as for the provision of a national referral service.

This publication serves as a guide to the exciting worlds of veterinary science and veterinary nursing. Both are career paths full of challenges and fulfilment. We look forward to welcoming you as a new student to our campus where you will be empowered to eventually start a career as a balanced person and professional in all respects.

Prof Gerry Swan
Dean: Faculty of Veterinary Science



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Minimum requirements for study programmes

Please note: All prospective students will be required to write the Institutional Proficiency Test (NBT) during their Grade 12 year.

The minimum requirements for the following programmes are:

Programme (Degree/ Diploma) Duration Closing date	Two NSC languages	Mathematics	Physical Science	Two other NSC subjects	APS
BVSc(University degree in Veterinary Science) [6 years] BVSc is presented in English only Closing date: 31 May	English as Home or First Additional Language and another NSC language as Home or First Additional Language: both at 4 (50-59%)	4 (50-59%) provided a level 5 (60-69%) is obtained in Physical Science	4 (50-59%) provided a level 5 (60-69%) is obtained in Mathematics	4 (50-59%)	30
Careers: Veterinarian in private practice, research, academia, state veterinary services, work in private, state and provincial diagnostic laboratories, veterinary public health (milk and meat hygiene, control of transfer of disease), technical services, research and product development in pharmaceutical and food industries, consultancy, laboratory animal management, wildlife management, poultry production, animal welfare.					
DipVetNurs(University Diploma in Veterinary Nursing) [2 years] Veterinary Nursing is presented in English only Closing date: 31 May	English as Home or First Additional Language and another NSC language as Home or First Additional Language: both at 4 (50-59%)	4 (50-59%)	4 (50-59%)	Two NSC subjects of which one must be Life Sciences: both at 4 (50-59%)	24
Provisional selection will be based on Grade 11 results; selection will be confirmed (final selection) if the Grade 12 APS is not >3 points below the Grade 11 APS and still above the minimum of 24.					
Careers: Veterinary nurses can be employed by the following institutions: private veterinary practices, veterinary academic hospitals, pharmaceutical industry, animal food industry, animal welfare societies, zoological gardens, game parks, laboratory animal units, rehabilitation centres, research centres, animal boarding establishments, organised agriculture, dairies, farming operations.					

Important information:

All programmes involve selection procedures based on academic merit and the results of the Institutional Proficiency Test (www.nbt.ac.za). An interview may be required.

Applicants who have indicated BVSc or DipVetNurs as first choice will be given preference. The geographic

distribution of applicants will be taken into consideration in the admission process according to population distribution (demographics). In order to retain provisional admission candidates' APS may not drop with more than three points.

Website: www.veterinary.up.ac.za



General overview

The Faculty structures provide for the following divisions, departments and centres:

Student Administration

- Provides full logistical support to all academic departments, students and staff for all undergraduate and postgraduate degree and diploma programmes.
- Provides a wide range of student support services in collaboration with similar service providers on the Hatfield Campus of the University.

Academic departments

- Anatomy and Physiology (anatomy, embryology, histology and physiology)
- Companion Animal Clinical Studies (medicine, surgery, anaesthesiology, diagnostic imaging, clinical pathology: dogs, cats, horses)
- Paraclinical Sciences (pathology, pharmacology, toxicology, veterinary public health, phytomedicine)
- Production Animal Studies (food animals: cattle, small stock, pigs, poultry, wildlife: reproduction of all species)
- Veterinary Tropical Diseases (infectious and vector-borne diseases, parasitology, zoonoses and veterinary professional life)

Faculty Administration

- General Administration
- Finances
- Human Resources
- Onderstepoort Teaching Animal Unit (OTAU)

Marketing and Communication Division

- Public Relations, Communication, Publications, Media

Centres

- Equine Research Centre (ERC)
- Centre for Veterinary Wildlife Studies (CVWS)

Onderstepoort Veterinary Academic Hospital (OVAH)

- A state-of-the-art facility for year-round clinical and referral services
- Satellite community clinics
- Experiential training of students

Academic programmes

The Faculty currently offers the following programmes at undergraduate and postgraduate level:

Undergraduate

- BVSc
- DipVetNurs

Postgraduate

- BVSc(Hons)
- MMedVet
- MSc(Veterinary Science)
- MSc(Veterinary Tropical Diseases)
- MSc(Veterinary Industrial Pharmacology)
- MSc(Animal/Human/Ecosystem Health)
- PhD
- DVSc

Veterinary Science (BVSc)

The BVSc programme is offered only by the Faculty of Veterinary Science of the University of Pretoria at the Onderstepoort Campus on a full-time basis. The language of tuition in this Faculty is English. A well-developed student support system is in place, including mentoring, tutoring, didactic support, and medical and psychological counselling.

Current programme

The four-year BVSc degree programme, currently being phased out, requires the completion of, and follows on, a directed custom-made three-year BSc(Veterinary Biology) degree programme offered by the Faculty of Natural and Agricultural Sciences and the Faculty of Veterinary Science of the University of Pretoria.

Due to changes in the degree structure (see below), the BSc(Veterinary Biology) degree programme was discontinued in 2010 and will produce its last graduates in 2011. The four-year BVSc programme will have its last intake of previously selected students in 2012. Thereafter, it will be systematically phased out over time as students progress to more advanced levels of study. It is envisaged that this programme will produce its last graduates in 2015.

New programme

A core-elective six-year single-degree programme has been developed to replace the existing double degree programme described above with effect from 2011.

The core-elective programme is an internationally recognised and recommended approach in which all candidates will complete a core curriculum over four-and-a-half years (nine semesters). They will then complete a chosen elective over the next four months, which will give them increased competencies to enter the profession in their chosen career paths. The training will be concluded with approximately 12 months of experiential training in the core and chosen elective components. The first year of the new programme will be presented at the Hatfield Campus; the remaining years will be presented at the Onderstepoort Campus. The macro-curriculum of the programme is given on page 4 of this brochure (please note that details may change in subsequent years of study).

The first cohort of students completed the first year of the new programme in 2011 and will follow the second year of the new programme at the Onderstepoort Campus in 2012. The first graduates of the new programme will complete their studies in 2016.

Applications close on 31 May.

Application and admission requirements for 2013

School leavers

- a valid NSC with admission for degree purposes
- subject requirements and APS as indicated in the table on page 1 of this brochure. The Admission Point Score (APS) is calculated from the achievement levels obtained in the six 20-credit subjects of the NSC.
- completed National Benchmark Test (NBT). Basic performance in this test is regarded as unacceptable.





Applicants with tertiary exposure

- at least the first semester of a BSc(Biological Sciences) programme with subjects as indicated in the macro-curriculum of the BVSc programme as it appears on page 3 and 4 of this brochure (please note that details may change in subsequent years of study).
- Senior undergraduate and graduate students with exposure to subjects shown in the second semester of the first year macro-curriculum as it appears on page 3 may be considered for admission to the second year of the BVSc programme.

Alternative routes for school leavers with the required subject combinations but failing to meet the minimum requirements

Applicants should write the National Benchmark Test and apply for admission to the University of Pretoria's BSc Four-year Programme in the Faculty of Natural and Agricultural Sciences.

International students

A small number of international students may be admitted to the programme. For matriculation exemption requirements and calculation of the APS, please refer to page 13.

Equivalency of academic credits will be taken into account. Once applicants have been accepted for this programme, they will receive a letter of acceptance from the University, which will facilitate their application for a study permit. A valid study permit, obtained in the country of origin, is a prerequisite for registration.

Selection of applicants

A total of 120 students will be admitted to the first year of the programme and 140 to the second year. The Faculty endeavours to meet the veterinary needs of the country and the specific requirements of higher education legislation through the selection of applicants. The recruitment and selection process is therefore structured in such a way that it will address diversity, excellence, equity, gender and geographic distribution.

The procedure will be reviewed on an annual basis, and makes provision for the following categories of students:

- School leavers
- Students with tertiary exposure
- International students
- Students nominated by other bodies

Selection will be based on academic performance, the National Benchmark Test and an interview if required. Aptitude testing and prior exposure to veterinary activities, farming activities, animal rehabilitation activities, etc are being considered as additional selection criteria together with specific sectoral requirements. The programme consists of a mixture of lectures, electronic learning opportunities, practicals and clinical work. The latter is offered mainly in the Onderstepoort Veterinary Academic Hospital and its satellite facilities and community clinics.

A graduate who has completed the degree programme will have received broad-based training with an expanding elective programme to cater for specific interests. It will also enable the holder to enter a number of postgraduate

study programmes, as listed on the previous page and briefly described on pages 6 and 7. Upon conferment of the BVSc degree, the new graduate is entitled to register with the South African Veterinary Council (SAVC) as a veterinarian. Registration with the SAVC is a prerequisite for practising as a veterinarian in South Africa. The University's BVSc degree is also recognised in the United Kingdom, Australasia and Malaysia.

BVSc curriculum

FIRST YEAR: FIRST SEMESTER	FIRST YEAR: SECOND SEMESTER
Theme: Natural Sciences	Theme: Natural Sciences
Academic information management AIM 101	Academic literacy EOT 120*
Academic literacy EOT 110*	Biometry BME 120
Mathematics WTW 134	Chemistry CMY 127
Chemistry CMY 117	Introductory Genetics GTS 161
Physics PHY 131	Animal Nutrition VKU 122
Molecular and Cell Biology MLB 111	Introductory Animal Science VKU 120
Medical Terminology MTL 180	Veterinary Professional Life VPL 120
* Due to change in 2013	*Due to change in 2013

SECOND YEAR: FIRST SEMESTER	SECOND YEAR: SECOND SEMESTER
Theme: Basic Veterinary Disciplines	Theme: Basic Veterinary Disciplines
Veterinary Comparative Anatomy VCA 200	Veterinary Comparative Anatomy VCA 200
Veterinary Physiology & Histology VPH 200	Veterinary Physiology & Histology VPH 200
Veterinary Ethology & Genetics VET 200	Veterinary Ethology & Genetics VET 200
Animal Science VKU 210	Animal Ecology VKU 220
Veterinary Microbiology VEM 210	Veterinary Immunology VIM 220
Pasture Science WDE 253	
Veterinary Professional Life VPL 200	Veterinary Professional Life VPL 200

THIRD YEAR: FIRST SEMESTER	THIRD YEAR: SECOND SEMESTER
Theme: Causes and Effects of Disease	Theme: Causes and Effects of Disease
Veterinary Infectious Diseases	Veterinary Infectious Diseases
Veterinary Parasitology	Veterinary Parasitology
Veterinary Toxicology	Veterinary Toxicology
General Veterinary Pharmacology	General Veterinary Pharmacology
General and Organ Pathology (GOP)	General and Organ Pathology (GOP)
Introductory Clinical Studies	Introductory Clinical Studies
	General Surgery
Veterinary Professional Life VPL 300	Veterinary Professional Life VPL 300

FOURTH YEAR: FIRST SEMESTER	FOURTH YEAR: SECOND SEMESTER
Theme: Veterinary Diagnostics and Therapeutics	Theme: Veterinary Diagnostics and Therapeutics
Small Animal Medicine and Surgery	Small Animal Medicine and Surgery
	Porcine Health and Production
Equine Medicine and Surgery	Poultry Health and Production
Veterinary Reproduction	Veterinary Reproduction
Diagnostic Imaging	Diagnostic Imaging
Clinical Pathology	Anaesthesiology
Diagnostic Pathology	Diagnostic Pathology
Veterinary Professional Life VPL 400	Veterinary Professional Life VPL 400

FIFTH YEAR: FIRST SEMESTER	FIFTH YEAR: SECOND SEMESTER
Veterinary Community Interaction	Elective Didactic
Veterinary Public Health	All students do a short course in:
Veterinary Practice Management (Veterinary Professional Life)	Research Methodology and a short project in the elective module
One Health	
Veterinary Epidemiology	Choose between:
Bovine Health and Production	1. Small Animal and Exotic Practice
Small Stock Health and Production	2. Equine Practice
	3. Production Animal and Wildlife Practice
	4. Veterinary Public Health and State Veterinary Practice
Sixth year: First 8 Months	Sixth year: last 4 Months
Core Clinics	Elective Clinics

* Names of modules and/or combinations of disciplines are subject to change.

Career opportunities in Veterinary Science

Veterinary science offers rewarding and wide-ranging employment opportunities for the new graduate.

• Private practice

The majority of veterinarians in the country are gainfully employed in private practice, either in their own practice, in partnership, as an assistant or as a locum.

There are several avenues of private practice: rural practice, providing veterinary services to the livestock farmer (cattle, horses, sheep, goats, pigs, poultry and game), companion animal practice (dogs, cats, horses,

birds, etc.) and mixed practice (pets and farm animals). The services provided by the private practitioner include clinical services, disease prevention strategies, advice and a whole range of consultative services on nutrition, management, production, reproduction, biotechnology (embryo transfer), etc. Some practices are species-specific (dogs, cats and small pets, cattle, horses), whereas others offer services across species barriers and also cater for wildlife and exotic animals.

• Research

Research can be conducted in a wide spectrum of areas (veterinary, agriculture and biomedical sciences), attending to problems related to both animals and humans.

• Academia

Graduates can teach at veterinary, medical, agricultural and natural science faculties.

• State veterinary services

A significant number of veterinarians are employed as state or provincial veterinarians in government service. They render essential regulatory services related to the diagnosis, surveillance, monitoring, control, prevention and eradication of notifiable diseases. State veterinarians are also responsible for matters related to the import and export of animals and animal products and also for food safety and security. In regions where there are no private practitioners, state veterinarians may also provide clinical services.

• Private, state and provincial diagnostic laboratories

Graduates can provide routine or forensic diagnostic services involving disciplines such as pathology, clinical pathology, microbiology and toxicology.

• Veterinary public health

Food security and the production of food that is safe for human consumption are very important fields in which the veterinarian plays a key role. Veterinarians are responsible for ensuring the maintenance of meat and milk hygiene in abattoirs and milk processing plants, in addition to their role in the maintenance and improvement of animal health on the farm. Veterinarians involved in the field of veterinary public health also play an important role in the control of zoonotic diseases (ie diseases transferred from animals to humans).

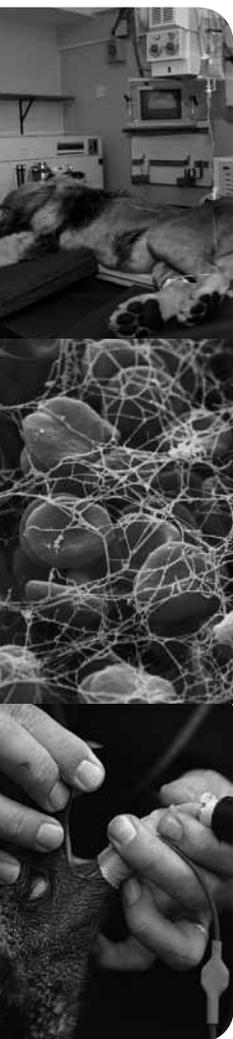
• Commerce

The veterinarian is involved in research and product development in the pharmaceutical and feed industries, as well as in the provision of technical advice in sales and management.

• Consultancy

Provision of specialised or specialist services to the farm animal and pet industries, for example as a consultant in the pig industry, feedlots or specialist practice (such as surgery, internal medicine, ophthalmology and dentistry). In the case of a specialist practice, the practitioner will need to have the appropriate postgraduate qualification and be registered with SAVC to practise as a veterinarian and a specialist.





- **Laboratory animal science**

The veterinarian is an essential member of the team involved in the welfare of laboratory animals, monitoring the utilisation of animals for experimental purposes and giving advice on ethical issues.

- **Wildlife management**

Wildlife ranching, conservation and involvement at a zoological institution offer wonderful career opportunities for a veterinarian. However, posts in these fields are limited.

- **Poultry production**

The poultry industry provides large volumes of animal protein for human consumption and veterinarians play a pivotal role in the poultry industry.

- **Animal welfare**

The veterinarian is intimately involved in animal welfare in the provision of clinical services and advice, and in management at welfare organisations. Veterinarians are involved in general matters pertaining to the welfare of animals through the promotion of appropriate husbandry practices, nutritional practices, disease prevention strategies and sound production systems.

- **International employment**

Graduates from the Faculty enjoy wide national and international recognition and the BVSc degree of the University of Pretoria is recognised in the United Kingdom, as well as by the Australasian Veterinary Boards Council and Malaysian authorities.

- **General**

For a young person who is interested in animals and/or a career in biomedical sciences, veterinary science provides a spectrum of wonderful opportunities. Like many other similar career options, veterinary science may perhaps be considered a 'calling' and the decision to become a veterinarian involves both the head and the heart. While a love for animals may be a component of the decision to pursue veterinary science as a career, a deeper empathy will be required, coupled with a sense of compassion and caring.

The course is demanding and requires dedication and hard work. It is a career with long and often irregular hours and will certainly test tolerance levels. Whatever field of the profession the graduate chooses to pursue, the ability to work with both people and animals is essential.

Veterinary science offers a host of rewarding and challenging career opportunities, all of which can bring immense job satisfaction. SAVC controls the ethics and standards of veterinary education and practice and all graduates must register with the Council before being allowed to practice, and are subject to its rules. The veterinary profession in South Africa has a proud tradition of service to the community, which has been built on the high quality of the training provided and the professional service rendered.

Veterinary Nursing (DipVetNurs)

DipVetNurs is a two-year diploma programme. It is currently offered on a full-time basis. The Faculty intends to introduce a degree programme, subject to finding solutions to a number of technical issues. Veterinary nursing, as a recognised profession, is offered only by the Faculty of Veterinary Science of the University of Pretoria.

Application and admission requirements

The closing date for applications is 31 May.

A valid NSC with university admission for all school leavers who do not have tertiary experience. The APS is calculated from the achievement levels obtained in the six 20-credit subjects of the NSC. Minimum admission requirements appear on page 1 of the brochure. Additional requirements include the National Benchmark Test and interviews as required. Both years of study are presented at the Onderstepoort Campus of the University of Pretoria.

Selection of candidates

A total of 50 students will be admitted to the programme. The Faculty endeavours to meet the veterinary nursing needs of the country and the specific requirements of higher education legislation through the selection of applicants. The recruitment and selection process is therefore structured in such a way that it will address access, diversity and excellence. The procedure will be reviewed on an annual basis and makes provision for the following categories of students:

- School leavers
- Students with tertiary exposure
- International students
- Repeating students

Selection will be based on academic performance, the National Benchmark Test and an interview if required. A limited number of international students may be admitted to the programme. Equivalency of academic credits will be taken into account. Once applicants have been accepted for this programme, they will receive a letter of acceptance from the University, which will facilitate their application for a study permit. A valid study permit, obtained in the country of origin, is a prerequisite for registration.

Academic programme

The diploma programme requires two years of full-time study. The language of tuition is English. The first year is devoted to basic modules in anatomy, physiology, pharmacology, ethology, microbiology, parasitology, laboratory techniques and general nursing. It also includes promotion courses in medical nursing, reproductive nursing and theatre practice.

The second year is devoted to medical nursing, reproductive nursing, theatre practice, anaesthesiology, radiography and surgical nursing. It also includes a semester of clinical training at the Onderstepoort Veterinary Academic Hospital and approved private veterinary facilities.

Career opportunities in Veterinary Nursing

Veterinary Nursing is recognised by the SAVC as a paraveterinary profession and all qualified veterinary nurses are registered with the SAVC. Registration is a prerequisite for practising as a veterinary nurse. Veterinary nursing opens up a wide range of rewarding and satisfying career opportunities for the veterinary nurse. Wherever there is employment for a veterinarian, there is also a career opportunity for a veterinary nurse.

Veterinary nursing requires a dedicated and motivated person with a special interest in working with animals and their owners. The veterinary nurse is a member of a professional team that includes veterinarians, and is expected to show a high degree of responsibility, organising skills, patience and good human relations. Self-discipline, honesty, dedication and a sense of humour are recommended attributes.

The following employment opportunities are available:

- Private veterinary practice is urban, rural, mixed general, or species-specific. The veterinary nurse assists with anaesthesia, operating theatre management, intensive care, radiography, laboratory analysis, animal patient care and nursing, disease prevention, administration and practice management.
- Employment in the Onderstepoort Veterinary Academic Hospital, as well as in the pharmaceutical and animal food industries, offers further opportunities. Veterinary nurses are also employed in animal welfare societies throughout South Africa.
- Zoological gardens, game parks, laboratory animal units, rehabilitation centres, research centres, boarding establishments, organised agriculture, dairies and farming operations also offer gainful employment.



Yolanda Rachmann
(Veterinary Nursing)

“Veterinary Nursing is a lifelong commitment in helping animals. I have gained so much in studying this diploma! Not only have I learned about animals and their behaviour but also met many different kinds (or shall I say, species) of people! Onderstepoort is definitely the place to be if you love working with animals.

In the last two years I have attended several talks on pet food, doing courses to be a Food Advisor, talks on darting wildlife and doing my AI course. There are so many opportunities! You just need to step forward in life and take it!

My dream career is working with wildlife and rural animals; helping pets and owners who can't afford expensive veterinary services. Working for experience and aiming for my goals! //

Postgraduate programmes

Honours in Veterinary Science BVSc(Hons)

The honours degree provides students with a broad scientific background in the theoretical aspects of various disciplines. The degree will enable the student to apply this knowledge in the workplace or towards completion of the MMedVet degree. A candidate must have a BVSc or an equivalent professional veterinary degree to enrol for the BVSc(Hons). Entry examinations for individual modules may be required. The programme is under review.

Master of Veterinary Medicine MMedVet

The master's degree in Veterinary Medicine is a specialist professional degree that equips the student with a broad scientific background in the theoretical aspects and specific practical skills in the chosen field of study. Credits obtained in the BVSc(Hons) programme may be retained in the MMedVet programme. The MMedVet degree allows the graduate to register with the SAVC as a veterinary specialist.

Magister Scientiae(Veterinary Science) MSc

The MSc degree in Veterinary Science is a research degree offered by all departments over a minimum period of one year and a maximum of three years.

Magister Scientiae (Veterinary Tropical Diseases)

This is a web-based MSc degree programme, which focuses on animal health management issues in respect of infectious and parasitic diseases, particularly in the Afrotropical (sub-Saharan) region. No new admissions will be accepted from 2012 onwards.





Magister Scientiae (Veterinary Industrial Pharmacology)

This is an MSc degree programme offered by the Department of Paraclinical Sciences to equip candidates with the appropriate knowledge and skills required by the veterinary pharmaceutical industry.

Magister Scientiae (Animal/Human/Ecosystem Health)

A web-based MSc degree programme offered by the Department of Veterinary Tropical Diseases to equip candidates with the knowledge and skills required for a career in One Health.



Philosophiae Doctor PhD

The PhD degree is offered by all departments. The degree is conferred on the basis of the successful completion of a thesis. An additional oral examination is required.

Doctor of Veterinary Science DVSc

The DVSc degree is conferred on the basis of scientific publications.



General information

Faculty specific information

Tel: +27(0)12 529 8061 (Joe Vhengani),
+27(0)12 529 8457 (Lesego Teffu)
Email: joe.vhengani@up.ac.za,
lesego.teffu@up.ac.za
Location: Arnold Theiler building, Old Soutpan Road, Onderstepoort Campus

All general enquiries can be directed to the Client Service Centre

Tel: +27 (0)12 420 3111
Email: csc@up.ac.za
Website: www.up.ac.za
Parents page: www.up.ac.za/parents
Postal address: University of Pretoria,
Private bag X20, Hatfield 0028
Street address: University of Pretoria, c/o Lynnwood and University Roads, Hatfield 0083

GPS coordinates to UP Campuses

Hatfield Campus: S25° 45' 21"E28° 13' 51"
(main campus)
UP Sports Campus
(LC De Villiers): S25° 45' 10"E28° 14' 46"
(1.2 km from Hatfield Campus)
Groenkloof
Campus: S25° 46' 10"E28° 12' 34"
(3.5 km from Hatfield Campus)
Onderstepoort
Campus: S28° 10' 54"E25° 38' 52"
(22 km from Hatfield Campus)

Mamelodi Campus: S25° 43' 22"E28° 23' 56"
(12 km from Hatfield Campus)

Prinshof Campus: S25° 43' 57"E28° 12' 10"
(6 km from Hatfield Campus)

GIBS Campus: S26° 07' 46"E28° 02' 46"
(56 km from Hatfield Campus)

University of Pretoria banking details

ABSA Branch: Hatfield Branch code: 632005 Account number: 214 000 0054 Swift code: ABSAZAJJ	Standard Bank Branch: Hatfield Branch code: 011545 Account number: 012 602 604 Swift code: SBZAZAJJ
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Welcoming Day and the Official programme for registration and start of the academic year (28 January – 7 February 2012)

Attendance of the Official programme for registration and start of the academic year is compulsory for all new first-year students. It was designed to assist you with your academic preparedness, enabling you to successfully make the adjustment from high school to university.

Institutional Proficiency Test (IPT)

The University of Pretoria requires of prospective students to write an Institutional Proficiency Test (ie the National Benchmark Test). Details about the test will be communicated to you in writing.

Contact information

Tel: +27 (0)21 650 3523
Website: www.nbt.ac.za

Application

New students may only register after successful admission. If provisionally admitted, you will still have to comply with the requirements of the Faculty where you want to register with your Grade 12 end of year NSC examination results. Thus new students will only be permitted to register once their application and admission processes are approved. Provisional admission is based on the results obtained in the Grade 11 end examination. Please take note that the final Grade 12 NSC results remain the determining factor with regard to admission. Furthermore, please note that the achievement of the minimum requirements does not necessarily guarantee admission to any study programme.

Late applications. Before you submit a late application, please contact the Faculty Administration Consultant to ensure that there is still space available. If the study programme is not subject to selection and if the Faculty still has space available, your application will be considered. Late applications are only accepted on condition that all the admission requirements for the relevant degrees are fully complied with. Should the student not comply with the requirements the student's application will not be considered. Application fees will not be refunded. A Grade 12 National Senior Certificate (NSC) with university exemption (endorsement) is required if Grade 12 has been obtained before 2008.

Admission

In order for prospective students with a NSC qualification to gain admission to any of the nine faculties at the University of Pretoria, applicants should comply with the following admission requirements:

- the minimum statutory and institutional requirements for degree studies
- recognised and appropriate combinations of subjects
- the required Admission Point Score (APS) as stipulated in the regulations and syllabi of each faculty
- English and/or Afrikaans on Grade 12 level

The calculation of the APS is based on a candidate's achievement in any six recognised 20-credit subjects (not only designated subjects) by using the seven-point rating scale below.

Achievement	Achievement level	Mark
7	Outstanding achievement	80-100%
6	Meritorious achievement	70-79%
5	Substantial achievement	60-69%
4	Adequate achievement	50-59%
3	Moderate achievement	40-49%
2	Elementary achievement	30-39%
1	Not achieved	0-29%

Life Orientation is excluded from the calculation of APS.

Language policy and medium of instruction

In conducting its business, the University uses two official languages, namely Afrikaans and English. In formal education, the medium of instruction is either Afrikaans or English, or both of these languages, provided that there is a demand and that it is academically and economically justifiable. However, it remains the student's responsibility to ascertain on an annual basis in which language a module and any further level of that module is presented. In respect of administrative and other services, a student

Bursaries and loans

New undergraduate students who enrol for study programmes should obtain the minimum average percentage indicated below in order to qualify for a merit bursary.

New undergraduate achievement bursary values: 2012

Faculty / School	Faculty of Natural and Agricultural Sciences	School for the Built Environment and School of Engineering	School of Information Technology	Other faculties and schools
Qualifying average %	75-100%	75-100%	80-100%	80-100%
Minimum bursary value	R11 300	R11 300	R11 300	R7 700
Maximum bursary value	R26 500	R26 500	R22 700	R20 300

has the right to choose whether the University should communicate with him or her in Afrikaans or English.

Academic Information Management

Academic Information Management (AIM101 or [AIM111 and AIM121] depending on your programme) is compulsory for all new first-year students.

- AIM101 will be presented in the first or second semester depending on your programme.
- AIM111 will be presented in the first semester and AIM121 in the second semester.
- There is no exemption examination available for AIM101 or (AIM111 and AIM121).

Compulsory Academic Literacy Test for registered first-year students

PLEASE NOTE: The Academic Literacy Test does not replace the National Benchmark Test (NBT).

- A student with high academic potential can have a low level of academic literacy which may put the student's academic success at risk. The academic literacy levels of all new first-year students at the University of Pretoria are therefore measured by means of a standardised Academic Literacy Test. If necessary, they are then placed on a suitable academic literacy programme in accordance with their level of risk.
- This Academic Literacy Test is written only once and is compulsory for all new first-year students, regardless of whether the student has already written an admissions test or has completed a language course elsewhere. If the student later decides to change his/her academic programme, the Academic Literacy Test does not need to be written again.
- Students may write the Academic Literacy Test in either English or Afrikaans. Students in the faculties of Health Sciences and Veterinary Science are obliged to write the test in English. Please refer to your Official programme for registration and start of the academic year for times and venues of the Academic Literacy Test.





Bursaries for achievement in other academic fields and extra-curricular activities: 2012

Entrepreneurial	R2 400
Expo Gold Medallist	R2 400
Subject Olympiads: Overall winner	R6 400
Subject Olympiads: 2nd–10th place	R2 400
Science/Mathematics/Accounting: Overall winner	R33 300
Science/Mathematics/Accounting: 2nd place	R26 600
Science/Mathematics/Accounting: 3rd place	R20 000
Science/Mathematics/Accounting: 4th–10th place	R2 400
20 top achiever new first-year students	R20 200
Junior Tukkies Development Programme (15 bursaries)	R11 600
Grade 12 Dux learners* at 678 selected feeder schools (1 bursary per school)	Initial payment for tuition during registration period (R3 500)
*Top academic achiever in Grade 12	

Disclaimer: The University reserves the right to amend, without prior notice, the regulations and conditions applicable to the awarding of bursaries and loans. Please consult www.up.ac.za/fao for the latest information.

Fees payable

The estimated tuition fees in the Faculty of Veterinary Science for 2012 are R28 860 to R40 450. This amount is subject to change and should not be considered to be the final cost. Prospective students are advised to adjust these amounts for inflationary increases in costs.

Instalment	Payment required	Payment date	Amount 2012
Ad hoc-levies	<ul style="list-style-type: none"> Application fee (non-refundable) International administrative levy 	<ul style="list-style-type: none"> Payable in the year preceding study Payable prior to or during registration 	R220 R2 500
Placement levy for the allocation of a study and/or residence place	Payment equal to the first instalment secures the place allocated: <ul style="list-style-type: none"> Study place Residence place 	Payment once notice has been given of placement <ul style="list-style-type: none"> Study place Residence place 	R3 500 R4 000
Cancellation levies	Should a study and/or residence place, which has been accepted, not be taken up, a cancellation fee will be levied	Levy will be retained from the acceptance payment <ul style="list-style-type: none"> Study place Residence place 	R1 750 R2 000
Initial payment (ie first instalment)	Tuition fees <ul style="list-style-type: none"> Postgraduate students renewing registration All other students (under- and postgraduate) Residence fees 	Payable before or during registration if not already paid in acceptance of study place Payable before or during registration if not already paid in acceptance of residence place	R2 400 R3 500 R4 000
Second instalment	50% of fee account	On or before 30 April	
Third instalment	100% of fee account	On or before 31 July	

Accommodation

Hatfield Campus:

- Ladies residences: Asterhof, Erika, Jasmyn, Katjiepiering, Madelief, Klaradyn, Magrietjie and Nerina
- Men's residences: Boekenhout, Kollege, Maroela, Mopanie, Oliehout and Taaibos
Single rooms: R21 600
Double rooms: R19 900
Meals (should 100% of the meals be taken): R26 200
- Tuks Village: Units for Ladies
- Tuks Village: Units for Men
Single rooms: R24 300
Meals (should 100% of the meals be taken): R26 200

Onderstepoort Campus: Faculty of Veterinary Science

- Mixed Residence: Onderstepoort
Single rooms: R21 600
Double rooms: R19 900
Block A and B: R26 600
Block C: R30 000
Block D (flat): R40 000
Meals (should 100% of the meals be taken): R26 200

Private accommodation

Private accommodation is available and the following numbers can be contacted in this regard:

Arlon Properties

Tel: +27 (0)12 362 5499
Email: arlon@icon.co.za

City Property

Tel: +27 (0)12 362 4473
Email: propworld@cityprop.co.za

Off-campus Rental

Tel: +27 (0)12 362 6123 or 083 438 2548
Email: ocrental@telkomsa.net

Sonop

Tel: +27 (0)12 460 7830/5723
Email: toniev@sonop.org.za

South Point

Tel: +27 (0)12 341 1762
Email: tumi@staysouthpoint.co.za

Open Day

Date: 19 May 2012
Time: 08:00-14:00

The following persons should attend the Open Day:

- Grade 12 learners who have received confirmation that they are provisionally admitted to UP
- Grade 12 learners who meet the admission requirements and wish to hand in their application forms
- Grade 11 learners who are fairly certain that they will enrol
- The parents of the abovementioned learners

TuksSport

Tel: +27 (0)12 420 6069
Fax: +27 (0)12 420 6095
Email: sportinfo@up.ac.za
Website: www.up.ac.za

Department of Student Affairs

The Dean of Students is the head of the Department of Student Affairs. His offices are in the Roosmaryn Building on the Hatfield Campus. The Department of Student Affairs has two divisions: Student Support and Student Development.

Student Support Division

This division includes Student Health, Student Counselling and the Unit for students with special needs.

Services provided by the Student Support Division include:

- *Academic development.* Career counselling and assessment, study methods and reading courses, stress management, psychometric testing, time management, career planning.
- *Potential development.* Conflict management, communication skills, goal setting, problem solving.
- *Individual and relationship counselling.* Interpersonal problems, stress, depression, eating disorders, life trauma, emotional problems, development of life skills.

Contact information

Tel: +27 (0)12 420 2333
Email: ria.paul@up.ac.za
Location: Student Affairs Building, R2-13, Hatfield Campus

In addition to the services provided by the Student Support Division, students may also contact the crisis line (0800 006 428 toll-free).

Student Development Division

The full spectrum of organised student life resides in this division, including:

Student Parliament (SP)
Student Representative Council (SRC)
Constitutional Tribunal (Student Court)
Day houses
Faculty houses
Over 100 religious, cultural, academic, political and other societies
RAG (Reach Out and Give)
Stuku (student culture)
Perdeby (student newspaper)
TuksFM (campus radio station)
Student Sport

} Service providers

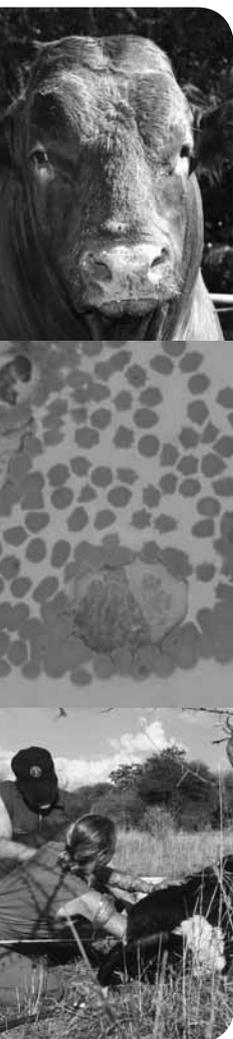
Contact information

Tel: +27 (0)12 420 6600/1411
Location: Roosmaryn Building, Hatfield Campus

Library Services

The Department of Library Services is host to a world-class modern academic research library network spread over the campuses of the University. This service is aligned to the University of Pretoria's faculties with customised services for undergraduates, postgraduates, staff, alumni and visiting academics. All services are designed towards creating a gateway to global information and supporting learning, teaching and research through interaction with professional staff.





Key initiatives include an e-service (online); access to wide-ranging print and electronic collections; the Learning Centre at the Merensky Library and online assignment support for undergraduate students; an online reference service (Ask-a-Librarian); wireless hotspots; search engines to access electronic journals, books and databases; electronic theses and dissertations; an institutional repository; various audio-visual materials; facilities for the physically challenged; and inter-lending facilities to national and international collections. All of these actively contribute to a world-class learning environment. More information can be obtained from www.library.up.ac.za.

Merensky Library (Hatfield Campus)

Tel: +27 (0)12 420 5375/6
 Location: Department of Library Services, University of Pretoria, Lynnwood Road, Hatfield

Basic Medical Sciences and Dentistry Library (Prinshof Campus)

Email: suzy.nyakale@up.ac.za
 Tel: +27 (0)12 319 2242
 Location: Basic Medical Sciences Building, 9 Bophelo Road, Gezina

Education Library (Groenkloof Campus)

Email: johann.vanwyk@up.ac.za
 Tel: +27 (0)12 420 5536
 Location: Media Building, cnr. George Storrar and Leyds Streets, Groenkloof

Health Sciences Library (Prinshof Campus)

Email: magriet.lee@up.ac.za
 Tel: +27 (0)12 354 2298/144
 Location: Faculty of Health Sciences, HW Snyman Building, 31 Bophelo Road, Gezina

Klinikala Library (at the Kalafong Academic Hospital)

Tel: +27 (0)12 373 1031
 Location: Klinikala Building, Klipspringer Road, Atteridgeville

Mamelodi Library

Email: jacob.mothutsi@up.ac.za
 Tel: +27 (0)12 842 3566
 Location: Mamelodi Campus, cnr. Hinterland and Hans Strijdom Roads, Mamelodi

Music Library

Email: isobel.vanderwalt@up.ac.za
 Tel: +27 (0)12 420 2317
 Location: Department of Library Services, Lynnwood Road, Hatfield

Oliver R Tambo Library (Law Library)

Email: shirley.gilmore@up.ac.za
 Tel: +27 (0)12 420 2268
 Location: Law Building, Lynnwood Road, Hatfield

Jotello F Soga Library (Onderstepoort Campus)

Email: susan.marsh@up.ac.za
 Tel: +27 (0)12 529 8007/8/9
 Location: Arnold Theiler Building, Faculty of Veterinary Science, Onderstepoort

Witbank Library

Email: riki.duplessis@up.ac.za
 Tel: +27 (0)13 653 2342
 Location: Witbank Hospital, cnr. President and Coert Steynberg Avenue, eMalahleni

Normal library hours

	Monday, Wednesday, Thursday	Tuesday	Friday	Saturday
Hatfield Campus	07:30-21:00	08:30-21:00	07:30-20:00	08:30-13:00
Law	07:30-21:00	08:30-21:00	07:30-20:00	08:30-13:00
Groenkloof	07:30-21:00	08:30-21:00	07:30-20:00	08:30-13:00
Health Sciences	07:30-20:00	08:30-20:00	07:30-20:00	08:30-14:00
BMS and Dentistry	07:30-17:00	08:30-17:00	07:30-16:00	Closed
Music	07:30-19:00	08:30-19:00	07:30-16:00	09:00-13:00
Veterinary Science	07:30-18:00	08:30-18:00	07:30-18:00	08:30-12:30
Mamelodi	07:30-16:00	08:30-16:00	07:30-16:00	08:00-13:00

Normal study centre hours

Weekdays: Open 24 hours per day
 Saturdays: 06:00-18:00
 Sundays and public holidays: Closed unless stated otherwise

International students

Important information

All international students must report to the International Students Division (ISD) in the Client Service Centre (CSC) on the Hatfield Campus prior to registration. The Client Service Centre (CSC) will be open from 3 January 2012.

Contact information: International Students Division

Tel: +27 (0)12 420 3111
 Email: csc@up.ac.za
 Website: www.up.ac.za/ISD
 Location: CSC Hatfield Campus

General information

Non-South African citizens will have to submit proof of legal status in South Africa, as well as proof of adequate medical cover at the International Students Division in the CSC before they will be able to register.

Supporting documents

Please note that students must have photocopies ready before coming to the International Student Division in the CSC. Copies can be made at Xerox (in the Student Centre).

All international students will have to show their original documents and submit two photocopies of the documents listed below:

- the International Students Information form, completed and signed
- a valid passport or an identity document (in the case of students with permanent residence in South Africa)
- a valid study permit endorsed for study at the University of Pretoria
 OR an asylum seekers permit
 OR a Certificate of Refugee Status
 OR a diplomatic passport (not a diplomatic card)
- proof of medical cover (Medical cover must be paid a year in advance, January-December)

The abovementioned documents must be submitted to an international consultant and the information must be captured before you can register.

Study permit

- Students must obtain valid study permits before embarking to South Africa. It is no longer possible to obtain a first study permit in South Africa.
- An application for a study permit can be made at the nearest South African Embassy or High Commission in home countries or closest Embassy or High Commission in neighbouring countries.

Medical cover

Proof of medical aid membership paid up in advance for the full academic year must be submitted.

Medical cover accepted by the University of Pretoria

- **Momentum Health (Ingwe option)**

Tel: +27 (0)11 671 8511
 Email: neville.govender@momentum.co.za
 Website: www.ingwehealth.co.za

- **BESTmed Medical Scheme (Blueprint Student option)**

Tel: +27 (0)12 339 9800
 or 086 000 2378 or 086000BEST
 Email: service@bestmed.co.za
 Website: www.bestmed.co.za



Liesel Steinmann

“ I enjoyed the professional manner in which recent and updated information was taught to me and the opportunities that I had to apply all my theoretical knowledge in a practical situation. The staff and the students interact with each other in a friendly and helpful manner in both academic and social activities. This Faculty gave me the opportunity to graduate from an internationally accepted, world class institution and also gave me the opportunity to learn about all the aspects of Veterinary Science and also to interact with veterinarians and veterinary students from all over the world. I received a prize for best student in Applied Physiology in 2009 as well as academic achievement bursaries. ”





Higher Education South Africa (HESA)

Prospective students who are non-South African citizens should visit the website www.up.ac.za/ISD for more information. Prospective students can apply online at www.up.ac.za/apply. The academic year at South African universities extends from January to December.

HESA requires the following documents when applying for an exemption certificate:

- Copies of your qualifications certified as correct by the Registrar of a South African University or by the South African Embassy, Trade Mission or Consulate in a foreign country or by a Public Notary. Please note: Result slips, fax copies and copies certified by a commissioner of oaths are not acceptable.
- A certified copy of your South African identity document, in the case of Permanent Residents only, or a valid passport reflecting your full names and date of birth, passport number and photo, or a certified copy of the birth certificate.

- Completed M30E form (www.hesa-enrol.ac.za/mb – go to Applications)

This is a prerequisite for all students wishing to enrol for undergraduate studies at the University of Pretoria. This certificate can only be obtained from HESA. To obtain this certificate, you have to contact HESA directly. The University of Pretoria cannot obtain this certificate on your behalf.

Contact information (HESA)

Tel: +27 (010) 591 4401/2
 Fax: +27 (0)12 481 2922 or 481 2718
 Email: exemption@hesaenrol.ac.za
 Website: www.hesaenrol.ac.za/mb
 Location: Unisa Sunnyside Campus, Building 3, Level 1, corner of Rissik and Mears Streets, Sunnyside, Pretoria
 Postal address: PO Box 3854, Pretoria 0001

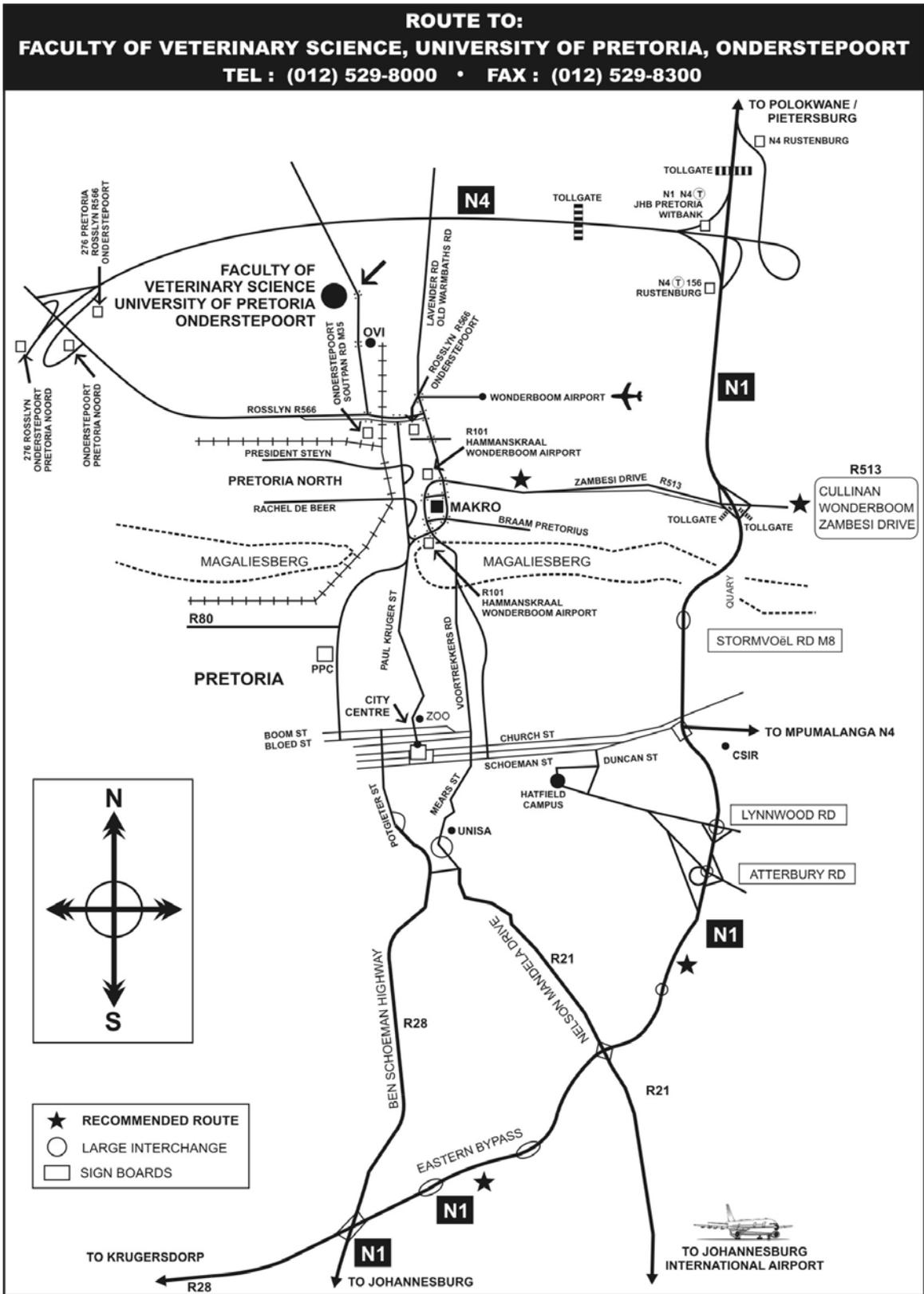
Admission Point Score (APS) Conversion Table

APS	NSC	SC HG M-score	SC SG M-score	HIGCSE / NSSC HL	IGCSE/ GCSE NSSC OL/ O-level		AS-level	A-level	IB HL	IB SL	APS
					Gr-11	Gr-12					
10								A	7		10
9											9
8								B	6		8
7	7 (80–100%)	A		1	A		A	C	5	7	7
6	6 (70–79%)	B	A	2	B		B	D	4	6	6
5	5 (60–69%)	C	B	3	C	A	C	E	3	5	5
4	4 (50–59%)	D	C		D	B	D		2	4	4
3	3 (40–49%)	E	D	4	E	C	E		1	3	3
2	2 (30–39%)	F	E		F	D/E				2	2
1	1 (0–29%)	G	F		G	F/G				1	1

- NSC – National Senior Certificate (completed Grade 12 in and after 2008)
 SC HG – Senior Certificate Higher Grade (completed Grade 12 before 2008)
 SC SG – Senior Certificate Standard Grade (completed Grade 12 before 2008)
 HIGCSE – Higher International General Certificate of Secondary Education
 IGCSE – International General Certificate of Secondary Education
 NSSC – Namibia Senior Secondary Certificate
 A-level – Advanced Level
 O-level – Ordinary Level
 AS-level – Advanced Subsidiary Level
 IB – International Baccalaureate Schools (higher levels and standard levels)

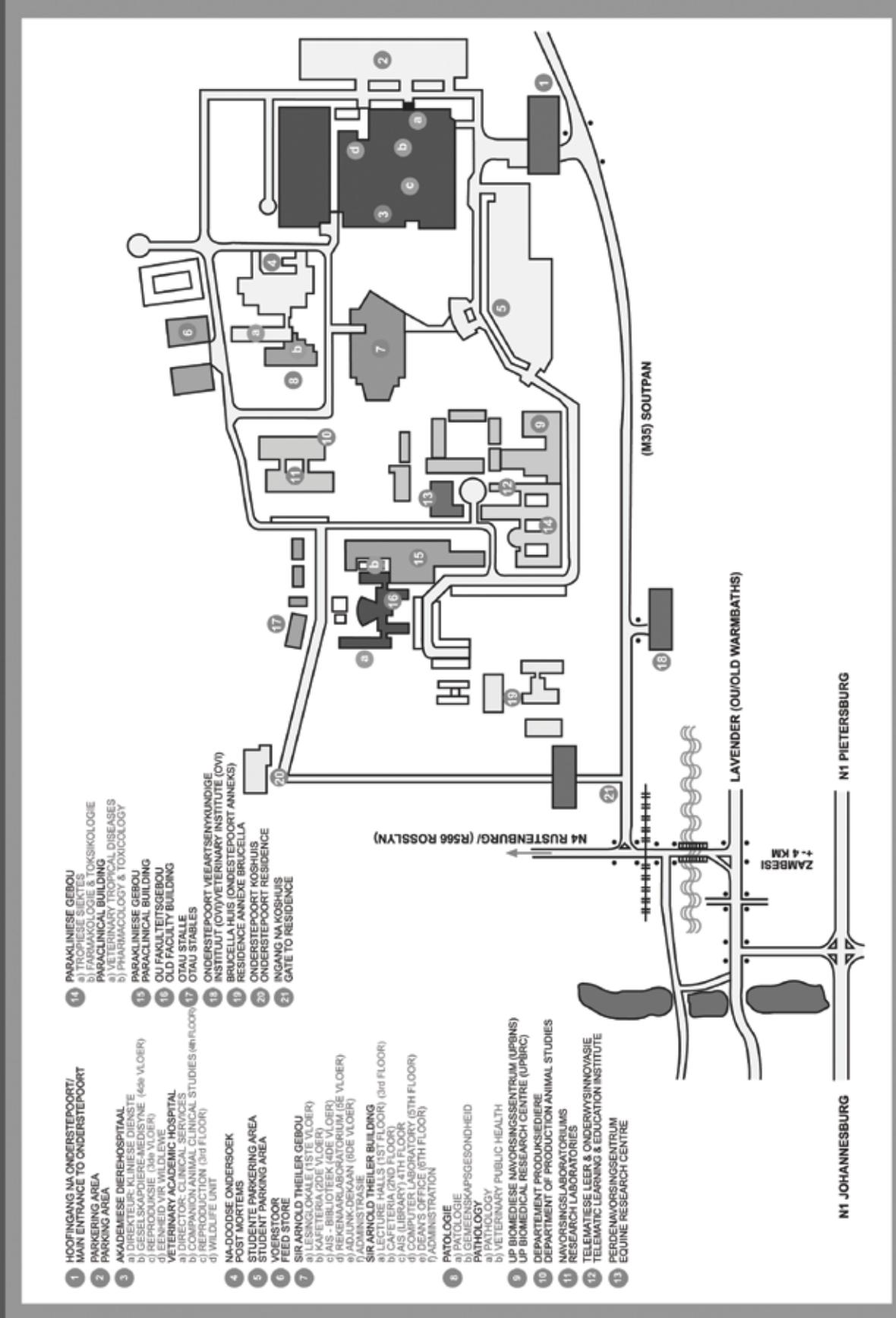
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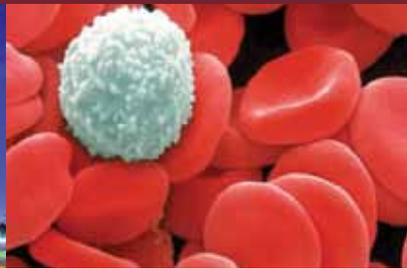
Route Map



Onderstepoort Campus

Onderstepoortkampus / Campus / Khamphase S 28° 10' 54" E 25° 38' 52"





UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

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