



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

University of Pretoria

Undergraduate study programme
information



2016

www.up.ac.za

Content

General information	1
- University of Pretoria campuses and contact information.....	1
- Admission requirements.....	1
- Application for admission	1
- Language policy and medium of instruction	2
- Bursaries, awards and loans (financial aid)	2
- Special offer to academic achievers	3
- UP banking details	3
- Accommodation	3
- Security services.....	4
- International students.....	4
Study programme information	6
- Faculty of Economic and Management Sciences	6
- Faculty of Humanities.....	9
- Faculty of Health Sciences.....	12
- Faculty of Theology	14
- Faculty of Engineering, Built Environment and Information Technology	15
- Faculty of Natural and Agricultural Sciences	19
- Faculty of Law	27
- Faculty of Education.....	28
- Faculty of Veterinary Science.....	29

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Comments and queries can be directed to csc@up.ac.za or tel: +27 (0)12 420 3111.

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General information

1. University of Pretoria campuses and contact information

Client Service Centre (CSC)

Tel +27 (0)12 420 3111

Email csc@up.ac.za

Website www.up.ac.za

Location

University of Pretoria, cnr Lynnwood Road and Roper Street, Hatfield, South Africa

Postal address

University of Pretoria, Private bag X20, Hatfield 0028, South Africa

GPS coordinates to campuses

Hatfield	S25° 45' 21" E28° 13' 51"
GIBS	S26° 07' 46.2" E28° 02' 46.788" (56 km from Hatfield Campus)
Groenkloof	S25° 46' 10" E28° 12' 34" (3.5 km from Hatfield Campus)
UP Sports Campus	S25° 45' 10" E28° 14' 46" (1.2 km from Hatfield Campus)
Mamelodi	S25° 43' 22" E28° 23' 56" (12 km from Hatfield Campus)
Onderstepoort	S28° 10' 54" E25° 38' 52" (22 km from Hatfield Campus)
Prinshof	S25° 43' 57" E28° 12' 10" (6 km from Hatfield Campus)

2. Admission requirements

The statutory minimum requirements for degree studies is a National Senior Certificate (NSC), with a minimum achievement level of 4 (50%–59%) in four recognised NSC 20-credit subjects from the designated subject list below:

- Accounting
- Agricultural Science
- Business Studies
- Consumer Studies
- Dramatic Arts
- Economics
- Engineering Graphics and Design
- Geography
- History
- Information Technology
- Languages*
- Life Sciences
- Mathematical Literacy
- Mathematics
- Music
- Physical Science
- Religion Studies
- Visual Arts

*Based on the languages used as medium of instruction at the University of Pretoria, it is advisable that students should have English and/or Afrikaans as a Home Language or as a First Additional Language, together with any other language of choice. Faculties and/or certain study programmes may impose additional requirements.

Prospective students in Grade 12 (final school-year) must use their final Grade 11 year mark (promotion mark) to apply. No Grade 12 marks will be considered for provisional admission. Please note that prospective students who have already left school should use their NSC/IEB* Certificate to apply. Also refer to "Higher Education South Africa" on page 4. Additional selection criteria are applicable in applications for selection programmes.

Provisional admission is granted on the results obtained in the final Grade 11 examination (promotion mark). Please note that the final Grade 12 results remain the determining factor with regard to admission. Also note that compliance with the minimum requirements does not necessarily guarantee admission to any study programme.

The calculation of an Admission Point Score (APS) is based on a candidate's achievement in any SIX recognised NSC 20-credit subjects (including subjects from the non-designated subject list, eg CAT, Tourism, Hospitality Studies and Civil, Electrical & Mechanical Technology, etc), by using the NSC seven-point rating scale. Life Orientation is a 10-credit subject and may not be used for calculating the APS. Life Orientation is also not a faculty-specific subject requirement.

*Independent Examination Board (IEB)

National Senior Certificate (NSC) seven-point rating scale

Achievement level	Description	Percentage
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%

National Benchmark Test (NBT)

The NBT is not compulsory for all study programmes. Please refer to the relevant study programmes in this brochure. Please note that the Academic Literacy Test does not replace the NBT.

Contact information

Tel +27 (0)21 650 3523

Website www.nbt.ac.za

3. Application for admission

- Applications open on 1 March of the year preceding the year of study. Completed application forms must reach the CSC before the closing date.
- We recommend that you apply online at www.up.ac.za/ apply. Once your application form has been processed, you will receive an eight-digit UP student number. You are also welcome to download an application form from the website.
- It is strongly recommended that you also indicate a second choice study programme on your application form. Refer to www.up.ac.za/admissioninfo. It is not advisable to apply for two selection programmes as your first and second choice. Selection programmes are study

General information

programmes with early closing dates and limited space and must preferably be indicated as first choice on your application form.

- A non-refundable application levy of R300 must accompany every application.
- The following documents must accompany your application:
 - A copy of your final Grade 11 examination report indicating your promotion mark
 - A copy of your ID or your birth certificate
- Faxed, scanned, or emailed application forms will not be accepted. Each student must complete only one application form.
- You may follow the progress of your application online via the UP Portal (Student Centre). Visit www.up.ac.za/portal.

4. Language policy and medium of instruction

In conducting its business, the University uses two official languages, namely English and Afrikaans. In formal education the medium of instruction is either English or Afrikaans, 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 has the right to choose whether the

University should communicate with him or her in English or Afrikaans. Where the University has the capacity, Sepedi is used as an additional language of communication.

5. Bursaries, awards and loans (financial aid)

University-managed bursaries and loans

Apply between 1 August and 30 September of the year preceding studies at www.up.ac.za/feesfunding. Please note that applicants for sports bursaries, should also complete an application form, which can be obtained from the Sports Centre, sportsinfo@up.ac.za, +27 (0)12 420 6060 or www.up.ac.za/sport.

University-managed awards

Learners do not apply for these awards. They are awarded automatically after registration. For the specific criteria, please refer to www.up.ac.za/feesfunding.

Other financial aid options

- Edu-loan: www.eduloan.co.za
- The Bursary Register:
 - Tel +27 (0)11 672 6559
 - Email slevin@mnet.co.za
 - www.gostudy.mobi
- www.bursary.hcifoundation.co.za

Achievement awards – new first-year students: 2015*

Guaranteed undergraduate achievement awards

Learners do not apply for the achievement awards below. These awards are awarded based on academic achievement.

Qualifying average percentage	Faculty of Natural and Agricultural Sciences Faculty of Engineering, Built Environment and Information Technology	Faculty of Health Sciences Faculty of Veterinary Science	Other faculties
75%–79.99%	R6 000	–	–
80%–89.99%	R15 000	R6 000	R15 000
90%–100%	R40 000	R20 000	R40 000

*Amounts will be adjusted for 2016.

Please note: The University of Pretoria reserves the right to amend award values without prior notice. Please refer to www.up.ac.za/feesfunding for the criteria applicable to the above achievement awards.

General information

6. Special offer to academic achievers

The special offer to academic achievers is based on average percentages obtained in the end examination of the final school year. This special offer may include guaranteed awards, placement in study programmes and/or residence placement. For more information on the University's special offer to new first-year students, visit www.up.ac.za/admissioninfo.

Guaranteed admission to a non-selection study programme of a student's first or second choice

Conditions

- Applications must be received on or before 1 May of the year preceding commencement of studies.
- The minimum requirements for admission to the chosen study programme must be met with the results achieved in the end examination of the final school-year.
- The minimum National Benchmark Test (NBT) requirements for the specific study programme must be met.

Please note that admission to selection study programmes cannot be guaranteed.

Placement in a residence of the University of Pretoria

75%–89.99%	90%–100%
<p>Consideration for placement in a residence of the University of Pretoria rests upon the following:</p> <p>The prospective student must:</p> <ul style="list-style-type: none"> apply before 1 May in the year preceding studies; have obtained an average of between 75% and 89.99% in the examination with which the student apply for admission to study at UP; and be provisionally admitted to a study programme. <p>Please take note that the academic average percentage is based on a calculation formula of the University of Pretoria.</p>	<p>Guaranteed placement in a residence of the University of Pretoria rests upon the following:</p> <p>The prospective student must:</p> <ul style="list-style-type: none"> apply before 1 May in the year preceding studies; have obtained a minimum average of 90% in the examination with which the student apply for admission to study at UP; and be provisionally admitted to a study programme. <p>Please take note that the academic average percentage is based on a calculation formula of the University of Pretoria.</p>

7. UP banking details

ABSA	Standard Bank
Branch: Hatfield	Branch: Hatfield
Branch code: 632005	Branch code: 011545
Account number: 214 000 0054	Account number: 012 602 604
Deposit Reference: Eight-digit student number	Deposit Reference: Eight-digit student number
For international transactions: SWIFT CODE: ABSAZAJCPT	

Please note:

- Always quote your eight-digit UP student number when making payments.
- Allow at least five working days for processing by your bank and retain the proof of payment (deposit slip).
- Do not fax your deposit slip to UP, unless specifically requested to do so. Faxing the deposit slip to UP will NOT reduce processing time at the University and will NOT allow same day services, especially during registration.

- For the Absa online banking page, see www.up.ac.za for help on setting up first time online banking. Search with "UNI" as beneficiary and choose the "students" option. This will reflect UP's bank account number 214 000 0054 when making a payment and will allow you to use your student number as reference.

8. Accommodation

Only a limited number of places are available in the University's residences. Placement in residences is based on academic achievement (APS) in Grade 11 and the date of your application. Consequently, you are strongly advised to apply for placement in a residence in March of the year preceding your studies. Please note that the demand for residence accommodation exceeds the availability and admission to a study programme can thus not guarantee placement in a residence. Guaranteed placement in a residence only applies to students who meet the minimum requirements of the UP special offer to academic achievers.

Application for placement in a residence is made on the application form for a study programme. Placement in a residence then takes place AFTER a prospective student has been provisionally admitted to a study programme. A prescribed reservation fee for residence place, is payable once you have been notified in writing that you have been placed in a residence. Please visit www.up.ac.za/admissioninfo or www.up.ac.za/accommodation.

General information

Private accommodation

The University can unfortunately not provide accommodation to all applicants as the demand exceeds the available places. For more information please refer to www.up.ac.za/accommodation.

9. Security services

The Department of Security Services creates and maintains a 24-hour safe environment, provides access control on all campuses as well as 24 hour surveillance by the UP Operational Management Centre.

Contact information

24 hour UP Operational Manager

+27 (0)83 654 0476

24 hour UP Operational Management Centre

+27 (0)12 420 2310/2760

24 hour crisis line

+27 (0)80 000 6428 (toll-free)

10. International students

All non-South African citizens must report to the International Students Division in the Client Service Centre on the Hatfield Campus prior to registration. Non-South African citizens will have to submit proof of legal status in South Africa, as well as proof of adequate medical aid cover at the International Students Division in the Client Service Centre before they will be able to register.

Contact information

Tel +27 (0)12 420 3111

Email csc@up.ac.za

Website www.up.ac.za/ISD

Location Client Service Centre
Hatfield Campus

Supporting documents

All non-South African citizens will have to show their original documents and submit two photocopies of each of the documents listed below:

- The International Students Information form, completed and signed
- A valid passport or an ID (in the case of students with permanent residence in South Africa)
- A valid study permit endorsed for studies at the University of Pretoria or one of the following:
 - A study visa
 - An asylum-seekers transit visa
 - Refugee – Section 24 permit
 - A diplomatic visa
- Proof of medical aid cover (medical aid cover must be paid a year in advance, from January to December)

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

Medical aid cover for study permit-holders

Non-South African citizens who are holders of study permits, or who wish to apply for a study permit must, in terms of South Africa's Immigration Act, have sufficient medical aid cover for the duration of their stay in South Africa. Non-South African citizens intending to study at the University of Pretoria can join one of the following medical aid schemes:

Momentum Health (Ingwe option)

Membership fees are payable in advance annually.

Tel +27 (0)12 671 8749 (Centurion office) or

+27 (0)86 010 2493

Email studenthealth@momentum.co.za

Website www.ingwehealth.co.za

BestMed Medical Scheme (Blueprint student option)

Membership fees are payable in advance annually.

Tel +27 (0)12 339 9800 or

+27 (0)86 000 2378 or

+27 (0)86 000 BEST

Fax +27 (0)12 323 4106 or

+27 (0)12 339 9900

Email lineyl@curemed.co.za

Higher Education South Africa (HESA)

A full or foreign conditional exemption certificate is a prerequisite and applicable to non-South African citizens and to students who do not have a South African National Senior Certificate (NSC) qualification or Independent Examination Board (IEB) qualification and who want to enrol for undergraduate studies at the University of Pretoria. This certificate can only be obtained from HESA.

Contact information

Tel +27 (0)12 481 2821

Fax +27 (0)12 481 2843/50

Email info@hesa.org.za

Website www.hesa.org.za

Location Unisa Sunnyside Campus

Building 3 Level 1

Cnr Rissik and Steve Biko Street

Sunnyside

Pretoria

General information

Admission Point Score (APS) conversion

The following tables can be used to convert your marks/symbols into an Admission Point Score (APS) when applying for studies at the University of Pretoria (UP).

Admission Point Score (APS) Conversion Table

APS (requirement level for subjects as well as overall APS)	NSC/IEB	SC HG M-score	SC SG M-score	HIGCSE NSSC HL	AS-Level	IB SL	IGCSE/ GCSE/ NSSC OL/ O-Level	IGCSE/ GCSE/ NSSC OL/ O-Level
							Grade 11*	Grade 12**
7	7 (80–100%)	A		1	A	7	A	
6	6 (70–79%)	B	A	2	B	6	B	
5	5 (60–69%)	C	B	3	C	5	C	A
4	4 (50–59%)	D	C	3	D	4	C	B
3	3 (40–49%)	E	D	4	E	3	D	C
2	2 (30–39%)	F	E			2	E	D/E
1	1 (0–29%)	G	F			1	F	F/G

* APS conversion for Grade 11 equivalent qualifications only and for conditional admission and selection purposes

** APS conversion for Grade 12 equivalent qualifications – not for final admission and must be taken together with Advanced Subsidiary Level and Advanced Level for exemption purposes

Admission Point Score (APS) Conversion Table only for Cambridge Advanced Level and IB Higher Level

APS		A-Level	IB HL
Required level for subjects	Required level for overall APS		
7	10	A	7
6	8	B	6
5	7	C	5
4	6	D	4
3	5	E	
2	4		
1	3		

NSC National Senior Certificate (completed Grade 12 in and after 2008)

IEB Independent Examination Board

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

A-Level Advanced Level

AS-Level Advanced Subsidiary Level

IB International Baccalaureate Schools (Higher Levels and Standard Levels)

IGCSE International General Certificate of Secondary Education

GCSE General Certificate of Secondary Education

NSSC Namibia Senior Secondary Certificate

O-Level Ordinary Level

Undergraduate study programmes

Economic and Management Sciences

Important information on undergraduate study programmes for 2016

- To be able to register, NSC candidates must comply with the minimum requirements for degree studies as well as with the minimum requirements for the relevant study programme. • Life Orientation is excluded when calculating the APS.

University of Pretoria website www.up.ac.za/ems

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English				Mathematics				
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BCom (Investment Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Funds manager, investment advisors, financial advisors, management accountants, management consultants, financial managers, investment brokers and investment analysts	5	3	C	C	6	2	B	B	34
BCom (Accounting Sciences) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: First step towards becoming chartered accountants and other categories of accountants, financial managers, internal auditors, bookkeepers, bankers, cost and management accountants and credit controllers	5	3	C	C	6	2	B	B	34
BCom (Econometrics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Econometricians are employed by government, the central bank, private and commercial banks, leading stockbrokers and consultancies, both locally and internationally. Positions include analysts, consultants, researchers, traders or brokers, and academics. The work mostly entails statistical analysis (forecasting, structural and policy analysis) of economic and financial markets and interrelationships.	5	3	C	C	6	2	B	B	32
BCom (Financial Sciences) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Specialisation in financial management: Management accountants, management consultants, performance managers, quality managers, financial advisors, strategy analysts, cost accountants, financial managers, financial planners and business analysts. Specialisation in taxation: Tax advisors, tax auditors in public practice, tax policy designers, tax practitioners, tax compliance managers, SARS auditors and tax risk managers. Specialisation in internal auditing: Internal auditors, risk officers, forensic auditors, IT auditors, financial auditors, performance auditors, environmental auditors, compliance officers, government auditors and governance auditors	5	3	C	C	5	3	C	C	32
BCom (Law) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: First step towards becoming attorneys, legal advisors, advocates, prosecutors, presiding officers (magistrate or judge) and law academics	5	3	C	C	5	3	C	C	32
BCom (Economics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Economists may specialise in banking, public finance, international trade and investment or economic development. Economists are employed by government, the central bank, private and commercial banks, stock brokerage firms and consultancies, both locally and internationally. Positions include analysts, consultants, researchers, traders and academics	5	3	C	C	5	3	C	C	32
BCom (Statistics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Statistical analysts in several industries, researchers, consultants and lecturers	5	3	C	C	5	3	C	C	32
BCom (Informatics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Manager in information technology environment, computer software or hardware supporter, computer systems analyst, financial information systems analyst, business analyst, information facilitator, IT training, systems developer, business systems analyst	5	3	C	C	4	3	D	D	30

Undergraduate study programmes

Economic and Management Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English				Mathematics				
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BCom (Agribusiness Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	30
Careers: Agricultural economist at banks and other agricultural and food-orientated institutions, commodity trader on future markets									
BCom [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: The degree does not lead to a specific vocational outcome, but offers opportunities to determine your own career outcome, within limits. Students are able to compile their own curricula with a view to work opportunities in all sectors									
BCom (Marketing Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: Product management, customer service management, customer relationship management, strategic marketing, sales management, distribution management, brand management, advertising management, media planning, marketing research management and promotions management.									
BCom (Entrepreneurship) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: Running of entrepreneurial activities and business, corporate entrepreneur, mentor to an entrepreneur, administrative manager, sales manager, shop manager, entrepreneur, business manager, business owner, retail-trade manager									
BCom (Communication Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: Client liaison consultants (advertising agencies), corporate communication consultants, corporate communication managers, corporate communication strategists, industrial journalists, public relations practitioners, relations managers, special events organisers, corporate social investment managers and sponsorship managers.									
BCom (Human Resource Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: Human resource practitioners, personnel consultants, mediators, labour relations specialists, human resource managers, personnel managers, liaison officers, psychometrists and industrial psychologists. In their capacity as human resource practitioners, graduates will be responsible for matters such as developing human resource strategies and policies, human resource planning, recruitment and selection of employees, training and development of staff, labour relations and personnel administration									
BCom (Business Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: A wide variety of opportunities in administration, finance, marketing and human resource management, including manager, teacher, lecturer, general manager, management consultant									
BCom (Recreation and Sports Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: Sport facility managers, sport event organisers, sport and recreation managers and sport marketing managers.									
BCom Option: Supply Chain Management [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	4	3	D	D	30
Careers: The purpose of this option is to equip learners of supply chain management with the ability to participate in functional management within an integrated supply chain. This includes the disciplines of supply management, production and operations management, warehousing, transport management and supply chain strategy									

Undergraduate study programmes

Economic and Management Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English				Mathematics				
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BCom (Four-year Programme) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D	3	4	E	E	26
<p>Please note: This programme is only offered in English. The first year of study is presented on the Mamelodi Campus. Admission is subject to selection. Prospective students should write the NBT. Non-SA students are required to write the NBT or SAT. For more information on SAT visit www.collegeboard.com.</p> <p>Careers: Career opportunities depend on the field of study chosen by students in their second year of study</p>									
BAdmin (International Relations) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	Mathematics 4 or Mathematical Literacy 4	3	D	D	28
<p>Please note: This programme is only offered in English. Students cannot be admitted to a BCom degree via a BAdmin if they do not comply with the admission requirements for a BCom degree.</p> <p>Careers: Diplomats, public servants, political analysts</p>									
BAdmin (Public Management) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	Mathematics 4 or Mathematical Literacy 4	3	D	D	28
<p>Please note: This programme is only offered in English. Students cannot be admitted to a BCom degree via a BAdmin if they do not comply with the admission requirements for a BCom degree.</p> <p>Careers: Managers in the public sector, local government and the private sector, non-governmental organisations, international organisations and embassies. Graduates are often employed in human resource sections, planning divisions and in general administrative divisions</p>									

Undergraduate study programmes

Humanities

Important information on undergraduate study programmes for 2016

- Candidates who achieved an APS of 30 in Grade 11 and comply with the minimum subject requirements and achievement levels of these study programmes will automatically be granted placement in the study programmes, subject to the availability of space. The above-mentioned is not applicable to selection programmes. • To retain admission, learners will be expected to obtain an APS of at least 28 in Grade 12. Prospective students who have already been granted provisional admission in these study programmes, but obtained at least an APS of 27 in Grade 12, will be considered by the Admission Committee should space be available. The Admission Committee of the Faculty of Humanities will consider these students once the results of the National Benchmark Test (NBT) are available and depending on the availability of space. • The Faculty will assess satisfactory performance in the NBT in the light of its commitment to ensure that an appropriate proportion of the applicants will be drawn from the historically disadvantaged category of the population. • Applicants with an APS of 30 but who do not comply with the subject requirements must write the NBT. • Life Orientation is excluded when calculating the APS.

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

BA – GENERAL AND BA (EXTENDED PROGRAMME)					
Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
	Afrikaans or English				
BA – GENERAL AND BA (EXTENDED PROGRAMME)	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BA – General [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	30
BA (Extended programme) [4 years] Closing dates: SA – 30 September Non-SA – 31 August					

The BA (Extended programme) is a BA degree programme that takes place over a period of four years instead of the normal three years. Prospective students cannot apply for this study programme. The Faculty's Admission Committee determines which students will be placed in this study programme. A limited number of places are available. Grade 12 applicants who have achieved an APS of 26-29 in Grade 11 will be considered for the BA (Extended programme), based on the results of the NBT.

Careers: Students who complete the BA – General have access to a wide range of careers. Many of the careers indicated under other study programmes can be recommended to students who choose the BA – General because it is often possible to choose the same majors and elective modules in this study programme as one can in the more structured programmes. Students should approach the academics in the Faculty for advice.

Please note that students, who wish to follow a career as a psychologist after completion of the BA degree, should complete a BA degree with psychology as a major as well as the BSocSciHons in Psychology and the MA in Clinical or Counselling Psychology. Careers: Clinical, counselling (sport and community) and research psychologist, registered counsellor or registered psychometrist

PROFESSIONAL DEGREES									
Study programme Duration Closing dates Careers	Minimum requirements for 2016								
	Achievement level								APS
	Afrikaans or English				Mathematics				
AUDIOLOGY AND SPEECH-LANGUAGE PATHOLOGY	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BA (Audiology) [4 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D	30
BA (Speech-Language Pathology) [4 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D	30

Departmental selection is based on academic achievement. To retain admission, candidates will be expected to achieve an APS of at least 28 in Grade 12. Only 40 students are admitted. The provisional selection process commences in July in the year preceding the first year of studies. More information can be obtained from the programme organiser. The first study year of Audiology and Speech-Language Pathology is the same. The choice of Life Sciences (Biology) is strongly recommended.

Careers as an audiologist: Diagnostic and rehabilitative audiology, audiometry and hearing therapy, work in schools, special schools, hospitals, clinics, private practice, government, military and academic institutions (teaching, research)

Careers as a speech-language therapist: Work in education and special education, hospitals, clinics, rural communities or in private practices.

SOCIAL WORK AND LAW	Afrikaans or English				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSW – Bachelor of Social Work [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	30

Departmental selection takes place at the end of the first year and is based on academic merit, psychometric tests and an interview.

Career: Social worker

Undergraduate study programmes

Humanities

Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
	Afrikaans or English				
SOCIAL WORK AND LAW	NSC/ IEB	HIGCSE	AS- Level	A- Level	30
	BA (Law) [3 years and postgraduate] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	
Career: Lawyer (BA (Law) degree plus the LLB degree required)					

SPECIALISED DEGREES

Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
	Afrikaans or English				
LANGUAGES, INDUSTRIAL SOCIOLOGY AND LABOUR STUDIES	NSC/ IEB	HIGCSE	AS- Level	A- Level	30
	BA Languages [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	
Careers: Advertising, media and communication, copywriting, creative writing, text and document design, editing, language planning, language teaching and training, lexicography (compilation of dictionaries), technical writing, public relations, text design, translation, publishing, diplomatic sector, tourism. It is recommended that in order to follow these career paths (as language practitioners) and to specialise in these fields, students continue with a BAHons in Translation and Professional Writing or a BAHons in Applied Language Studies on completion of the BA Languages. By continuing with a Postgraduate Certificate in Education, students are equipped to enter the teaching profession.					
BSocSci (Industrial Sociology and Labour Studies) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	NSC/ IEB	HIGCSE	AS- Level	A- Level	30
	5	3	C	C	
Careers: Labour relations practice, arbitration, conflict management and resolution, labour administration and research, gender issues and dismissals, work for government institutions, parastatals, private sector and trade union organisations					

PHILOSOPHY, POLITICS AND ECONOMICS [PPE]	Afrikaans or English				Mathematics				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSocSci Option: Philosophy, Politics and Economics [PPE] [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	32
Careers: Gives students entrance into a variety of careers related to economic or political policy making, from journalism to careers in the diplomatic service									

POLITICAL SCIENCES, HERITAGE AND CULTURAL TOURISM, SPORT AND LEISURE STUDIES	Afrikaans or English				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BPolSci (International Studies) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	30
Careers: International relations, diplomatic service, political consultation, conflict resolution, policy analysis, strategic intelligence, governance, international political economics, risk analysis					
BPolSci (Political Studies) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	30
Careers: Policy analysis and consultation, political analysis and communication, governance, conflict resolution, strategic intelligence, political development and mobilisation and risk analysis					

Undergraduate study programmes

Humanities

Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
POLITICAL SCIENCES, HERITAGE AND CULTURAL TOURISM, SPORT AND LEISURE STUDIES	Afrikaans or English				
	NSC/ IEB	HIGCSE	AS- Level	A-Level	
BHCS (Heritage and Cultural Tourism) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Archivists, consultants, museum experts (curators, managers), researchers, teachers, tour leaders, tour operators, tour entrepreneurs and heritage resource managers	5	3	C	C	30
BA Sport and Leisure Studies Option: Sport and Recreation Management Option: Sport Psychology Option: Sport and Leisure in Society Option: Sport Coaching Sciences [3 years and postgraduate] Closing dates: SA – 30 September Non-SA – 31 August Departmental selection is based on academic merit. Only 150 first-year students are admitted. No specific school subjects are required. Careers: Sport, recreation, health and fitness industry, sport marketing, teachers, coaches, sport event managers, sport facility managers, sport developers	5	3	C	C	30
FINE ARTS, INFORMATION DESIGN, VISUAL STUDIES, DRAMA AND MUSIC	Afrikaans or English				APS
	NSC/ IEB	HIGCSE	AS- Level	A-Level	
BA Fine Arts [4 years] Closing dates: SA – 30 June Non-SA – 30 June Departmental selection for this study programme involves a merit selection process and a final selection process, as well as the submission of a questionnaire and a portfolio of at least 20 recent works, which must be submitted to the Department of Visual Arts by 30 June. Detailed information about the selection process and the portfolio requirements can be obtained at www.up.ac.za/visualarts . Based on the questionnaire and the portfolio, you will be notified whether you qualify to continue with the final selection process. If your merit selection was successful, you will be invited to attend the final selection process, which consists of visualisation tests, practical tests and an interview. The final selection process takes place during August. You will be notified by end August of the result of the final selection tests. Approximately 100 applicants will be invited to take part in the final selection process. Careers: Gallery managers, arts facilitators, art consultants/advisors, art educators, artists in the fine arts, artists in new media, artists in applied arts	5	3	C	C	30
BA Information Design [4 years] Closing dates: SA – 30 June Non-SA – 30 June Departmental selection for this study programme involves a merit selection process and a final selection process, as well as the submission of a questionnaire and a portfolio of at least 20 recent works, which must be submitted to the Department of Visual Arts by 30 June. Detailed information about the selection process and the portfolio requirements can be obtained at www.up.ac.za/visualarts . Based on the questionnaire and the portfolio, you will be notified whether you qualify to continue with the final selection process. If your merit selection was successful, you will be invited to attend the final selection process, which consists of visualisation tests, practical tests and an interview. The final selection process takes place during August. You will be notified by end August of the result of the final selection tests. Approximately 100 applicants will be invited to take part in the final selection process. Careers: Animators, graphic designers, illustrators, interaction designers, communication designers, art directors, media production managers, design managers, designers of animation and movement graphics, design educators, media designers and typographers	5	3	C	C	30
BA (Visual Studies) [3 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Art and film critics, visual culture specialists, arts and culture educators, art historians, curators, visual analysts, visual consultants and media analysts	5	3	C	C	30
BA (Drama) [3 years] Closing dates: SA – 30 June Non-SA – 30 June Departmental selection is based on an audition in August of the year preceding students' first year of study. Careers: Actors (theatre, film, television and radio), physical theatre artists, theatre critics, radio and television presenters, directors, educational theatre practitioners and educators, community theatre artists and educators, light and sound operators, voice artists, stage and production managers, programme facilitators and managers, performing arts administrators, camera operators, documentary film-makers, digital and new media editors, playwrights, scriptwriters, play devisors, film and theatre researchers	5	3	C	C	30
BA (Music) [3 years] Closing dates: SA – 30 June Non-SA – 30 June Departmental selection: Prospective students must be able to sing or play an instrument on a practical level that is equivalent to approximately Grade V Practical (Unisa/Royal Schools/Trinity) and Theory Grade III. Candidates are tested during an audition. Careers: Arts and culture teachers at schools (Grade R–9) or music centres, group music facilitators for community and preschool learners, music entrepreneurs, song arrangers for school-based instruments, creators of simple backtracks for productions, choreographers for revues and singing games, choir conductors, organisers of community projects, and playing group music instruments, such as African drums, steel drums and marimbas	5	3	C	C	26
BMus [4 years] Closing dates: SA – 30 June Non-SA – 30 June Departmental selection is based on a practical singing or instrument performance of 15 minutes, as well as a theoretical test. Required subjects: Music with at least a 4 (50–59%) as Grade 12 subject, or Grade VII Practical and Grade V Theory (Unisa/Royal Schools/Trinity), as well as knowledge of music notation. Students who have been provisionally selected for BMus must undergo another practical selection test. The date of this selection will take place in consultation with the programme coordinator. Careers: Music teachers, music technicians, solo and/or chamber music performers and orchestral musicians	5	3	C	C	26

Undergraduate study programmes

Health Sciences

Important information on undergraduate study programmes for 2016

• In order to register, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies and with the minimum requirements for the relevant study programme. • **Life Orientation is excluded in the calculation of the APS.** • **Grade 11 results will be used for the conditional admission of prospective students.** • The Grade 12 score must not drop by more than 2 points for the provisional place to be retained. Admission to Health Sciences study programmes is subject to a selection process. • The applications of international candidates who come from countries that have medical schools will not be considered for placement in the MBChB study programme. • For selection purposes the sum of the results in six subjects, including English, Mathematics and Physical Science, is calculated.

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
	English				Mathematics				Physical Science				
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
MBChB – Bachelor of Medicine and Surgery [6 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	35
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: General medical practitioners, specialists (after postgraduate training)													
BChD – Bachelor of Dentistry [5 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	35
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Dentists, specialists, academics and researchers													
BOccTher – Bachelor of Occupational Therapy [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Occupational therapists, academics and researchers													
BPhysT – Bachelor of Physiotherapy [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Physiotherapists, academics and researchers													
BCur – Bachelor of Nursing Science [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	-				-				28
Selection is based on academic merit, the NBT, the Value-added Questionnaire and an interview. Careers: General nursing, psychiatric nursing, midwifery and community nursing													
BRad – Bachelor of Radiography [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Radiographers, academics and researchers													
BDietetics – Bachelor of Dietetics [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Career: Dieticians													

Undergraduate study programmes

Health Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016													APS
	Achievement level													
	English				Mathematics				Physical Science					
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level		
BClinical Medical Practice – Bachelor of Clinical Medical Practice [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D					-	25
Selection is based on academic merit and the Biographical Information Form. Careers: Clinical associates, academics and researchers														
BOH – Bachelor of Oral Hygiene [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D		25
Selection is based on academic merit and the NBT. Career: Oral hygienists														
Study programme Duration Closing dates Careers	Minimum requirements for 2016													
The study programmes below are only for registered nurses who have already obtained a nursing qualification.														
BCur(I et A) (Nursing Education) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a nurse with two years' experience Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Nursing Management) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Community Nursing) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Clinical Nursing: Critical Care, Trauma, Paediatric Nursing, Neonatology, Advanced Midwifery and Neonatology) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														

Undergraduate study programmes

Health Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS	
	Achievement level											APS		
	English				Mathematics				Physical Science or Life Sciences					
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level			A-Level
BSportSci – Bachelor of Sport Science ▪ Sport Science [3 years] ▪ Biokinetics [4 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	30	
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Sport Science research and teaching, biokinetics and the sport and exercise industry														
Higher Certificate in Sport Science [HCert (Sport Science)] [1 year] Closing dates: SA – 31 July Non-SA – 31 July									Afrikaans or English				APS	
								NSC/IEB	HIGCSE	AS-Level	A-Level			
								4	3	D	D	15		
Selection is based on academic merit and Grade 12 sporting achievements. Students who have obtained an NSC without endorsement and have an APS of at least 15 and wish to be considered for admission must write the NBT and apply for Senate discretionary admission. Please take note that places for the Higher Certificate in Sport Science are preferentially offered to applicants who are nominated by one of the official UP sports clubs. Careers: Sports coaching, sports and exercise industry														

Undergraduate study programmes

Theology

Important information on undergraduate study programmes for 2016

- In order to register for the study programmes, candidates must comply with the minimum NSC/IEB/Cambridge requirements for tertiary studies as well as the minimum requirements of the relevant study programme.
- Life Orientation is excluded in the calculation of the APS.

University of Pretoria website www.up.ac.za/theology

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English								
	NSC/IEB	HIGCSE	AS-Level	A-Level					
BDiv – Bachelor of Divinity (for admission to MDiv studies) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D					25 (23–24 admission based on the NBT)
Careers: Ministers, pastors, priests, preachers in certain denominations, missionaries and youth counsellors. Other possibilities include ethics consultants to businesses. Theological studies can be enriching for people in various other vocations. If prospective students are interested in ordained ministry, this should also be discussed with their church leadership. This study programme is presented in separate groups in only one language (English or Afrikaans). This is the first step to MDiv studies.									
BTh – Bachelor of Theology [3 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D					25 (23–24 admission based on the NBT)
Careers: Ministers, pastors, priests, preachers in certain denominations, missionaries and youth counsellors. Other possibilities include ethics consultants to businesses. Theological studies can be enriching for people in various other vocations. If prospective students are interested in ordained ministry, this should also be discussed with their church leadership. This study programme is presented in separate groups in only one language (English or Afrikaans).									
DipTheol – University Diploma in Theology [3 years] Closing dates: SA – 30 September Non-SA – 31 August	3	4	E	E					22 (20–21 admission based on the NBT)
Careers: Ministers, pastors, priests, lay preachers in certain denominations, missionaries and youth counsellors. Candidates should consult their church leadership on which would suit their aims best. The University Diploma in Theology is intended for candidates who have completed Grade 12 (or its equivalent), but without the required university admission. The University Diploma in Theology consists of the same subjects as the two degrees in Theology, and students who excel can possibly continue with postgraduate studies later. This study programme is only presented in English.									

Undergraduate study programmes

Engineering, Built Environment and Information Technology

Important information on undergraduate study programmes for 2016

• In order to register NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as with the minimum requirements for the relevant study programme. • Life Orientation is excluded when calculating the APS. • Grade 11 results are used in the provisional admission of prospective students. • A valid National Senior Certificate (NSC) with admission to degree studies is required. • Minimum subject and achievement requirements, as set out below, are required. On first-year level a student has a choice between Afrikaans and English as language medium. In certain cases, tuition may be presented in English only, for example in electives, where the lecturer may not speak Afrikaans or in cases where it is not economically or practically viable. • Provisional admission to the four-year programme in the School of Engineering is only guaranteed if a prospective student complies with ALL the requirements below.

Note: Candidates who do not comply with the minimum requirements, set out above, but who have obtained a minimum APS of 30, an achievement level of 5 for English or Afrikaans, 6 for Mathematics and 5 for Physical Science, will be considered for provisional admission to either the four-year programme or the ENGAGE programme based on the results of the compulsory NBT.

• Admission to ENGAGE in the School of Engineering will be determined by the results of the NBT, NSC results, an achievement level of 5 in Mathematics and 4 in Physical Science, as well as an achievement level of 4 in Afrikaans or English, together with an APS of 25. • Students may apply directly to be considered for the ENGAGE programme.

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
SCHOOL OF ENGINEERING	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BEng (Industrial Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Industrial engineers design, test, implement and manage a wide range of man/machine systems for the delivery of production and services. Organisational matters that require optimisation include site selection and layout of facilities, manufacturing, inventory control, materials handling, supply chain management, quality management, cost control, financial services, maintenance, reliability, computer simulation, information systems, human resources and business law.													
BEng (Chemical Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Chemical engineers are involved in industrial processes that convert raw materials into products with a higher economic value. This is achieved by means of physical, thermal, chemical, biochemical and mechanical changes and processes. Chemical engineers apply their specialised knowledge in the petroleum, food, minerals processing, power generation, and the paper and pulp industries, water and effluent treatment, as well as environmental engineering activities, including air pollution control. Like other engineering disciplines, chemical engineers are involved in research and development, techno-economic evaluation, equipment and plant design, process control and optimisation, construction, commissioning, operation and management and final product marketing and distribution.													
BEng (Civil Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Civil engineers design, build and maintain constructions such as tower blocks and skyscrapers, dams, canals and pipelines, roads, bridges, tunnels, railways, airports, power stations, television towers, water works and outfall installations. They are involved in financial modelling, feasibility studies and the management and rehabilitation of large asset portfolios.													
BEng (Electrical Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Electrical engineers are active in the generation, storage, transmission, distribution and utilisation of electrical energy. There is a brilliant future in renewable energy. Electrical engineers design, supervise the construction, oversee the optimal operation and assure perfect and timely maintenance of all electrical installations for municipalities, residential areas, commercial buildings, factories, mines and industries. Rail transport, water pumping, electrical grids, telecommunications, energy management and smart lighting are all fields of application of electrical engineering.													
BEng (Electronic Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Electronic engineers are active in various fields, such as telecommunications (fixed networks, wireless, satellite, television, radar and radio frequency networks), entertainment and medical (magnetic resonance imaging, X-rays, cardiopulmonary resuscitation, infrared tomography, electroencephalograms (EEG), electrocardiograms (ECG), rehabilitation engineering and biokinetics), integrated circuit design, bioengineering, military (vehicle electronics, smart bombs, night vision, laser systems), transport (e-tags, speed measuring, railway signalling, global positioning system (GPS) and mapping), "smart" dust, safety and security systems (face and speech recognition), banking (ATMs), commerce, robotics, education, environmental management, tourism and many more.													

*A-Level: C symbols for Mathematics, Physics and Chemistry will be considered for admission providing the required APS has been obtained.

Undergraduate study programmes

Engineering, Built Environment and Information Technology

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
SCHOOL OF ENGINEERING	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BEng (Mechanical Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Mechanical and aeronautical engineers are concerned with power-generating machines and systems such as vehicles, ships, air-conditioners, pebble bed nuclear reactors, aeroplanes, engines and turbines, robots and biomedical systems. Areas of specialisation include product design and manufacturing (such as design, testing and improvement of mechanical, electrical, pneumatic and hydraulic systems), marine engineering and naval architecture, biomedical engineering, air-conditioning and refrigeration, aerospace systems and aircraft/missile engineering, vehicle engineering, maintenance engineering and energy management (gas and steam turbines, nuclear power reactors, petrol engines, cooling towers and renewable energy systems).													
BEng (Metallurgical Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Only presented in English from second year Careers: Metallurgical engineers unlock the riches of deposits of metal ores, coal and diamonds and optimise the manufacture of metal components. They work in plants where valuable minerals are recovered from ore, where metals are produced out of the minerals and where the metals are converted into useful materials – such as steel or aluminium. Careers include production engineers, plant managers, consultants and researchers.													
BEng (Mining Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Only presented in English Careers: Mining engineers have a wide range of opportunities, namely mining (mine management, technical management of ventilation, rock mechanics, rock breaking, mineral resources), financial evaluation and management (mine design, mine financial evaluation, mine feasibility studies, mine environmental impact studies), mining and drilling contracting (mining, tunnelling, shaft sinking, mine development, ore evaluation), mining research, mining equipment design and manufacture, mining marketing and mining administration at national, provincial or international level.													
BEng (Computer Engineering) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B*	6	2	B	B*	35
Careers: Computer engineers are active in all fields of the information superhighway and the information and communication technology (ICT) world, which include computer systems, software engineering, computer and communications networks, wireless sensor networks, embedded software, electronics, smart control systems and automation, data security, e-commerce, pattern recognition (face and speech recognition), and artificial intelligence. They specialise in combining hardware, software and communication technologies to optimise system performance.													
Engineering Augmented Degree Programme (ENGAGE) [5 years] Candidates who do not comply with the minimum requirements mentioned above, but who do comply with these requirements, must write the NBT.	4	3	D	D	5	3	C	C	4	3	D	D	25

*A-Level: C symbols for Mathematics, Physics and Chemistry will be considered for admission providing the required APS has been obtained.

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
SCHOOL FOR THE BUILT ENVIRONMENT	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc Architecture [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D	4	3	D	D	27
Will only be considered as first study choice Selection programme: Selection includes an interview. Careers: The BSc Architecture study programme enables graduates to register with the South African Council for the Architectural Profession (SACAP) as candidate architectural technologists. The qualification is the first step to future registration as a candidate senior architectural technologist or a candidate architect. In practice, technologists and/or junior designers provide assistance in the disciplines of architecture and urban design. Their responsibilities include design development, documentation of projects, project administration and site management.													

Undergraduate study programmes

Engineering, Built Environment and Information Technology

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
SCHOOL FOR THE BUILT ENVIRONMENT	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
BSc Interior Architecture [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D	4	3	D	D	27
Will only be considered as first study choice Selection programme: Selection includes an interview. Careers: The BSc Interior Architecture study programme enables graduates to register with the South African Institute for the Interior Design Professions (IID) as candidate interior designers. This qualification is the first step to future registration as a candidate senior interior designer or a candidate interior architect. In practice, candidate designers provide assistance in the disciplines of interior design and architecture. Their responsibilities include design development, the documentation of projects, project administration and site management. Graduates work as designers in the built environment and related fields such as exhibition, lighting, product and stage design.													
BSc Landscape Architecture [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D	or Geography or Life Sciences 4	or Geography or Life Sciences 3	or Geography or Life Sciences D	or Geography or Life Sciences D	27
Selection programme: Selection includes an interview. Careers: The BSc Landscape Architecture study programme enables graduates to register with the South African Council for the Landscape Architectural Profession (SACLAP) as candidate landscape architectural technologists. This qualification is the first step to future registration as a candidate landscape architect. In practice, technologists and/or junior designers provide assistance in the disciplines of landscape architecture, environmental planning and management, architecture and urban design. Their responsibilities include design development, the creation of assessments and reports, the documentation of projects, project administration and site management.													
BSc Construction Management [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	5	3	C	C	or Accounting 4	or Accounting 3	or Accounting D	or Accounting D	30
Selection programme Careers: After completing the three-year undergraduate study programme, graduates could enter careers, in among others, construction site management or subcontract work. On completion of the ensuing two-year honours programme, graduates are able to register as professional construction managers and opportunities become much wider, including project management, property development, portfolio management, commercial marketing and managerial positions in the corporate environment.													
BSc Real Estate [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	5	3	C	C	or Accounting 4	or Accounting 3	or Accounting D	or Accounting D	30
Selection programme Careers: Apart from a future in areas such as property investment, property finance and facilities and property management, further studies to obtain an honours degree in real estate can lead to registration as professional property valuers. Career opportunities encompass the whole spectrum of the property sector, whether as entrepreneurs in the private sector or as employees in the private, government or semi-government sectors.													
BSc Quantity Surveying [3 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	5	3	C	C	or Accounting 4	or Accounting 3	or Accounting D	or Accounting D	30
Selection programme Careers: Quantity surveying is the science that delivers specialised financial and contractual services and advice to clients in the building and construction industry, as well as related industries. The three year undergraduate degree is the first step towards registration as quantity surveyors. The ensuing two-year honours programme leads to registration as candidate professional quantity surveyors. Career opportunities, apart from those in the private, government or semi-government sectors, also exist in the property, banking, mining and manufacturing industries.													
Bachelor of Town and Regional Planning [4 years] Closing dates: SA – 30 June Non-SA – 30 June	5	3	C	C	4	3	D	D					27
Selection programme Careers: Town and regional planners, development practitioners, urban managers, real estate analysts and researchers. While most town and regional planners act as private consultants to the public and private sector, they are also employed by all three spheres of government, research agencies such as the Council for Scientific and Industrial Research (CSIR) and the Human Sciences Research Council (HSRC), non-governmental organisations, community-based organisations, major financial institutions and property development groups. The qualification will enable graduates to register as professional town and regional planners with the South African Council for Planners.													

Undergraduate study programmes

Engineering, Built Environment and Information Technology

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English				Mathematics				
SCHOOL OF INFORMATION TECHNOLOGY	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BIT – Bachelor of Information Technology [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	30 (26–29 admission based on the NBT)
Should a candidate obtain an APS of 26 to 29, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. Careers: Information technologists, programmers, system analysts, computer consultants, and buyers of hardware and software. This study programme provides knowledge and understanding of the theory and practice of programming and software engineering; theory and the practice of the adoption and use of information systems in business organisations; aspects of collecting, retrieving, organising, managing and using information; philosophy, language and mathematics.									
BSc (Computer Science) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	30 (26–29 admission based on the NBT)
Should a candidate obtain an APS of 26 to 29, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. Careers: Programmers, systems analysts, systems architects, consultants, database administrators, network analysts and researchers.									
BIS (Multimedia) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D	5	3	C	C	30 (26–29 admission based on the NBT)
Should a candidate obtain an APS of 26 to 29, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. Careers: Programmers, web designers, animation specialists, video editors, electronic artists. The study programme prepares candidates for positions at any of the following content producers: paper publications, television, radio, phone technologies and the web. Graduates can become coders and work for programming companies. They can develop skills in their particular areas of interest, such as digital music or video, programming; graphic, games or web development.									
BSc IT (Information and Knowledge Systems) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D	5	3	C	C	30 (26–29 admission based on the NBT)
Should a candidate obtain an APS of 26 to 29, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. Careers: Graduates will differentiate themselves in an application environment by choosing one of the following subjects: Applied Mathematics, Genetics, Geographical Information Systems, IT and Enterprises, IT and Law, and Music, Operational Research, Philosophy, Psychology or Software Development.									
BIS (Information Science) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	4	3	D	D					28 (25–27 admission based on the NBT)
Should a candidate obtain an APS of 25 to 27, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. If informatics is selected at first-year level, an achievement level of 5 is required in Mathematics. Careers: Information and knowledge managers (manage information and knowledge resources), information or e-commerce specialists (organise, retrieve and add value to information), consultants on information products (services and systems), information brokers (act as infopreneurs and buy and sell information products and services), and system specialists/analysts/technologists (develop information systems).									
BIS (Publishing) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C					28 (25–27 admission based on the NBT)
Should a candidate obtain an APS of 25 to 27, consideration for admission will be based on the results of the NBT, provided the quotas regarding student numbers have not been reached. Careers: Entry-level job opportunities include assisting specific role-players in the publishing value chain (such as MDs of publishing houses, commissioning editors, editors, and production or marketing managers), market or picture research, copyright negotiations, copy-editing and proofreading, marketing and promotion, distribution and delivery.									
BCom (Informatics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	30
This study programme is administered by the Faculty of Economic and Management Sciences.									

Undergraduate study programmes

Natural and Agricultural Sciences

Important information on undergraduate study programmes for 2016

• In order to register, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as the minimum requirements for the relevant study programme. • Life Orientation is excluded in the calculation of the Admission Point Score (APS). • Grade 11 results are used for the provisional admission of prospective students. Final admission is based on the Grade 12 results.

University of Pretoria website www.up.ac.za/nas

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016												
	Achievement level												APS
BIOLOGICAL SCIENCES	Afrikaans or English				Mathematics				Physical Science				
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Biochemistry) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Biochemistry offers virtually unlimited opportunities for exciting and challenging careers in industry (fine chemicals, food and pharmaceutical industry and waste processing firms) and research councils, such as the Medical Research Council (MRC), the Agricultural Research Council (ARC), the Cancer Association of South Africa and the Water Research Commission, as well as institutes, academic institutions, the Council for Scientific Research (CSIR) and forensic and pathology laboratories. Career opportunities include those of researchers, teachers, lecturers and medical representatives. Bioinformatics graduates are comfortable in work environments such as universities, research institutes, pharmaceutical companies, biotechnology companies and related industries.													
BSc (Biological Sciences) Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
This is a generic first-year programme in Biological Sciences. Students, who are not sure which specialisation degree programme to choose, may apply for this study programme. Students who intend on applying for admission to MBChB or BChD in the second semester when places become available in those programmes may register in the first semester for BSc (Biological Sciences) modules, replacing Mathematics (WTW134) with Science and World Views (FIL 155), People and their Environment (MGW112) and Medical Terminology (MTL180), with the provision that these students, should they not be selected and should they wish to continue with one of the Biological Sciences study programmes, must complete Mathematics (WTW134) in the second semester of their first year. NB: The minimum admission requirement for MGW112 is an APS score of 34 and a minimum of 70% for Grade 12 Mathematics. Students who wish to apply for admission to one of the BVSc places that become available in the second semester of the same year may register for the prescribed subjects of Biological Sciences and for MTL 181 in their first semester. These students must register for WTW 134 in the first semester.													
BSc (Biotechnology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Graduates find work mostly as laboratory-based researchers or bio-entrepreneurs using medical, animal, plant or microbe-based technologies to develop products and services. If students combine biotechnology with additional qualifications such as law, they will be equipped for success in careers such as patent law, pharmaceutical sales and marketing, project management, computer programming (natural computation) and science journalism. Please note that the level of training/qualification plays an important role in determining what type of work a qualified biotechnologist can become involved in.													
BSc (Ecology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Environmentally based statutory and private conservation organisations, organisations involved in the direct or indirect use of natural resources, and academic and training institutions													
BSc (Zoology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Graduates of the Department of Zoology and Entomology can look forward to a range of exciting career prospects. They could be employed at nature conservancies, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, biochemical and biotechnology industries, educational institutions, IT-related fields and the corporate sector. Career opportunities include the full spectrum of potential activities involved in modern research, development and training. These range from full-time involvement in the field or laboratory to full-time training activities, and usually include a stimulating combination of analytical work, fieldwork and human resources-related work.													

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
BIOLOGICAL SCIENCES	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Entomology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
<p>Careers: Employment at nature reserves, environmental consultancies, conservation planning agencies, the biochemical and biotechnology industries, medical and veterinary research, pest management, quarantine and inspection services, museums, educational and research institutions, IT-related fields and the corporate sector. Graduates with expertise in Entomology are particularly highly sought after in the agricultural sector as insect management specialists or researchers.</p>													
BSc (Genetics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
BSc (Human Genetics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August													
<p>Careers: Graduates in Genetics generally choose to work as molecular biologists, medical or clinical geneticists, cytogeneticists, biotechnologists, agricultural scientists, molecular ecologists, forensic scientists, genetic counsellors, bioinformaticists and computational analysts, veterinary scientists, teachers or lecturers at various institutions and in bioscience-related industries. If students combine genetics with additional qualifications such as law, they will be equipped for success in careers such as patent law, pharmaceutical sales and marketing, project management, computer programming (natural computation) and science journalism. Please note that the level of training/qualification plays an important role in determining what type of work a qualified geneticist can become involved in.</p>													
BSc (Human Physiology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August													
BSc (Human Physiology, Genetics and Psychology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
<p>Careers: Research is performed in cooperation with medical teams in private and government research laboratories (such as the CSIR and the MRC), the SABS, pharmaceutical firms, universities, veterinary and industrial institutions and state departments (for example, the Department of Health). Physiologists are also found in various other fields, such as education (teachers, lecturers and instructors), sport physiology, biostatistics, bioengineering, industrial hygiene, journalism, medical technology and in the industry as representatives of pharmaceutical firms. Graduates with Genetics and Psychology as subjects also have access to postgraduate programmes offered by the departments of Genetics and Psychology (Faculty of Humanities).</p>													
BSc (Medical Sciences) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
<p>Careers: Postgraduate studies are highly recommended. Honours, master's and doctoral degrees can be obtained in any of the sub disciplines of anatomy, namely neuro-anatomy, clinical anatomy, cell biology, physical and forensic anthropology, histology and embryology. Students who obtain this degree can also continue with postgraduate studies in Physiology, Genetics and Pharmacology. Career opportunities include research in any of the anatomy sub disciplines, academia, forensic sciences and the health science industry. Other careers that can be considered are in the sport sciences, virology, chemical pathology, immunology, health administration or ergonomics. Technical careers, for example, in the anatomy or physiology departments of universities, are also possible. There are only 72 places in the first year of BSc (Medical Sciences). Students who apply for BSc (Medical Sciences) as their first choice before 30 September and who meet the minimum entrance requirements will be admitted until the places are full. Students who indicate it as their second choice and who meet the minimum entrance requirements will be put on a waiting list and will be considered in January of the first year of study, if places are available.</p>													
BSc (Microbiology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
<p>Careers: Microbiologists can pursue a variety of careers, ranging from practical applications to basic research. Career opportunities are available in the food, dairy, beer, wine and baker's yeast industries, in the fermentation industry, and at mines with regard to corrosion control. Graduates can also follow careers as medical or veterinary microbiologists, as researchers at organisations such as the CSIR, the MRC or the ARC, or as lecturers and researchers at various academic institutions.</p>													

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
BIOLOGICAL SCIENCES	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Plant Science) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Careers range from working in a laboratory to studying plants in their natural environment. Employment could be at biotechnology and pharmaceutical firms, South African National Parks, private ecological companies, research institutions such as the CSIR, the ARC, the South African National Biodiversity Institute, etc.													
Biological Sciences study programmes: Candidates who do not comply with the minimum admission requirements above, because they obtained a NSC/IEB achievement level of 4 in one of the prescribed prerequisite subjects, are required to write the NBT and may be considered for admission to the BSc or the BSc (Four-year Programme) based on the results of the NBT.													
BSc (Four-year Programme) – Biological and Agricultural Sciences NBT compulsory	4	3	D	D	4	3	D	D	4	3	D	D	24
NOTE: In 2015 BSc (Plant Science), BScAgric (Plant Pathology) and BScAgric (Applied Plant and Soil Sciences) will resort under one School. The curriculum may change, please keep informed by visiting our website at www.up.ac.za													

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
PHYSICAL SCIENCES	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Chemistry) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
Careers: Graduates in Chemistry are employed in most technology based institutions and work in a laboratory environment as part of an industrial, research or academic institution. A chemist must be able to participate in teamwork in a multidisciplinary environment in a wide variety of enterprises in both the private and public sectors. It is important to note that the type of work available to a graduate in chemistry depends on the level of the qualification obtained. Advanced qualifications will eventually lead to positions in research and/or production management and require management skills and financial planning. Many career opportunities are found in the sectors of education, research, journalism, environmental protection, food and beverages, energy, water, health, sport, pharmaceuticals and cosmetics, geology, mining and law enforcement. These include the well-known professions of synthetic chemists, materials scientists, chemical pathologists, forensic chemists, analytical chemists, drug analysts, patent lawyers, environmental chemists, geochemists, food chemists, polymer chemists and soil chemists.													
BSc (Physics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
Careers: University academics, whose duties include lecturing, research and the supervision of postgraduate students, researchers in national laboratories such as the Nuclear Energy Corporation of South Africa (NECSA), the South African Astronomical Observatory or iThemba LABS (Laboratory for Accelerator-based Sciences), researchers in industry such as at the CSIR or Element Six, science advisors for non-governmental organisations, industry or government, radiation scientists, medical and biophysicists, atmospheric scientists and climatologists, developers of renewable energy sources, geophysicists, innovators and entrepreneurs, computational scientists, etc. International collaboration with experts from abroad also takes place.													
BSc (Geography) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
Careers: There are three main career fields in geography: teaching, research and the application of geographical knowledge and skills in practice. Geographers can focus on environmental management, urban issues such as squatting, regional and rural development, or environmental issues, including pollution and the destruction of ecosystems through activities such as mining, agriculture and tourism. Geographers in the private sector are generally employed by real estate, planning, architecture and engineering firms, banks, tourism organisations, environmental conservation bodies and industry. Government departments involved in forestry, water and land affairs, the environment, tourism and education also employ geography graduates. Parastatal organisations such as the SABS and the CSIR offer career opportunities in the various specialised fields related to the earth and environmental sciences. Many geographers are self-employed. They are mainly involved in areas such as marketing, planning, development, tourism, cartography, geographic information systems (GIS), remote sensing, environmental analysis and environmental auditing. Graduates can also pursue academic careers.													

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
PHYSICAL SCIENCES	Afrikaans or English				Mathematics				Physical Science				APS
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Geoinformatics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
<p>Careers: Graduates are employed, among others, in agriculture, mineral exploration, engineering, forestry, water resource management, weather forecasting, environmental impact assessment (EIA), land-use planning, land development, rural community development, transport planning, tourism, market research, crime prevention, vehicle tracking, cartography, GIS technology, environmental planning and analysis, and disaster and environmental management. Graduates can apply for professional registration as GIS technologists with the South African Council for Professional and Technical Surveyors (PLATO).</p>													
BSc (Geology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
<p>Careers: Large international mining companies are major employers of geologists and other geoscientists in research, exploration and mining projects. However, employment is increasingly to be found in smaller, entrepreneurial firms ("juniors"). Interesting careers are also offered by the Council for Geosciences, the CSIR, the Council for Mineral Technology (MINTEK), the Department of Water Affairs and at museums, engineering firms and consulting companies. Graduates may even operate as self-employed consultants in their own firms. Laboratory specialists like mineralogists identify and examine minerals using sophisticated instruments and analytical equipment. Environmental and engineering geologists study the interaction between human activities and the geological environment, such as the pollution of soil and groundwater. They investigate geological structures and soil, and rock properties at construction sites, for example, dams, tunnels and mines, in order to provide valuable information prior to construction. They also locate and evaluate suitable construction materials. The task of the hydro geologist is to look for groundwater and monitor the responsible exploitation of that water.</p>													
BSc (Meteorology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
<p>Careers: Meteorologists are employed by institutions involved in the study, interpretation and prediction of weather and phenomena relating to the climate. The South African Weather Service (SAWS), the CSIR, some universities, agricultural institutions and general industries employ meteorologists who mainly practise as specialists in the following areas.</p> <p>Researchers: They research all aspects of the weather and climate in order to improve understanding of atmospheric phenomena. Atmospheric modellers use supercomputers to solve complex flow dynamic equations of the atmosphere. The monitoring of air quality and the modelling of the impact of air pollution on society are two important aspects that need to be addressed. Research into climate change is receiving increasing attention.</p> <p>Weather forecasters: It is the duty of the forecaster to analyse data and predict the weather by using models that are run on supercomputers. Weather forecasts are issued on different time scales, from very short-range forecasting to forecasts valid for months ahead, as well as seasonal forecasts. There are also some private weather forecasting positions, such as presenting the weather on television.</p> <p>Climatologists: They manage important data sets that contain large volumes of information gathered by the SAWS and other organisations.</p> <p>Consultants: Some meteorologists who work as consultants in the private sector and at universities provide specialised research services.</p> <p>Lecturers: A few academic positions are available for meteorologists and climatologists at South African universities. They ensure that the training of meteorologists meets international standards.</p>													
BSc (Environmental Sciences) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
<p>Careers: Environmental consultants, air quality managers, environmental impact analysts, environmental protection agents, hazardous material specialists, public health educators, researchers, water quality specialists, natural resource managers, risk managers, environmental educators, wetlands scientists, wildlife conservationists, environmental planners and analysts, wastewater treatment experts, programme and project managers, natural resources experts, researchers</p>													
BSc (Environmental and Engineering Geology) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	32
<p>Careers: Geologists, mineralogists, extraction metallurgists, economic geologists, geochemists, environmental and engineering geologists, geohydrologists, laboratory specialists, consultants</p>													
<p>Physical Sciences study programmes: Candidates who do not comply with the minimum admission requirements may be considered for admission to the BSc or the BSc (Four-year Programme) based on the results of the NBT.</p>													
BSc (Four-year Programme) – Physical Sciences NBT compulsory	4	3	D	D	4	3	D	D	4	3	D	D	26

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016												
	Achievement level												APS
	Afrikaans or English				Mathematics				Physical Science				
NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level		
BSc (Food Management) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Food service managers, quality controllers, teachers, researchers, food product developers, marketers, entrepreneurs, consultants, food journalists, teachers and trainers													
BSc (Food Science) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Food scientists with highly marketable training and professional skills work as food risk investigators, quality and safety assurance managers, food chemists, food microbiologists and biotechnologists, packaging and shelf life specialists, safety auditors, product and process development managers, technical sales and marketing advisors, sensory scientists, food bio-scientists (brew masters, flavourists) in the food, food agro processing and related industries. The work environment of food scientists includes laboratories, food production sites and business premises, training areas, retail, government institutions and research organisations. Food scientists also work in industries and companies that manufacture and supply materials (packaging and food additives, such as colourants and flavourants) for the food industry or that have secondary involvement in food production and sales.													
BSc (Nutrition) ▪ Nutritional Sciences [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
BSc (Nutrition): Students will be able to register as natural scientists with SACNASP and will be able to continue with a research-based MSc in Nutrition. The proposed programme will replace the existing BSc programme in Nutrition and Food Science. Careers: The need for graduates with training in nutrition is driven by the worldwide recognition that food does not only meet basic nutrition needs, but also plays a key role in the promotion and maintenance of long-term good health. Graduates from this four-year transdisciplinary programme will be able to specialise as nutritional scientists. Career opportunities include working in food or related industries (such as pharmaceutical companies), government departments, international organisations (such as the Food and Agricultural Organisation (FAO) and the World Health Organisation (WHO)) or research organisations, and as account managers and advisors in the food, health and consumer sectors.													
BScAgric (Food Science and Technology) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Food scientists with highly marketable training and professional skills work as food risk investigators, quality and safety assurance managers, food chemists, food microbiologists and biotechnologists, packaging and shelf life specialists, safety auditors, product and process development managers, technical sales and marketing advisors, sensory scientists and food bio-scientists (brew masters, flavourists) in the food, food agro-processing and related industries. The work environment of food scientists includes laboratories, food production sites and business premises, training areas, retail, government institutions and research organisations. Food scientists also work in industries and companies that manufacture and supply materials (packaging and food additives, such as colourants and flavourants) for the food industry or that have secondary involvement in food production and sales.													
BScAgric (Agricultural Economics/ Agribusiness Management) [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30
Careers: Agricultural economists are involved in many different areas of the economy. Some are involved in analysing and understanding consumers' behaviour in terms of their wants, needs and willingness to pay for food and clothing. Other agricultural economists are involved in environmental management and assisting government and businesses to ensure the sustainable use of scarce resources such as water and arable land. Some agricultural economists are traders on global financial markets and work at the Johannesburg Stock Exchange (JSE) in Sandton or at Wall Street in New York. Some other agricultural economists work for banks and in finance, at food processors such as bakers and brewers, while others advise farmers and input suppliers. Some agricultural economists work for the government, advising them on how to ensure that there is enough food for all the people in the country, while other agricultural economists work in commercial banks, advising clients and managers how to manage finance, risk and commodity markets. Agricultural economists also play a vital part in research and development in the agricultural sector. Agricultural economists travel a lot and meet many interesting people. They travel both locally and to most other parts of the world, such as Africa, the USA, China, South America, Australia and Europe. They do this to buy the best inputs to produce food and clothing, but also to identify and understand markets for products. Therefore an agricultural economist is somebody who is interested in people and their culture, in nature, but also in business and management. An agricultural economist needs to be able to interact with people, but also use statistics and mathematics to understand the interaction between people, nature and the economy.													

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016													APS
	Achievement level													
	Afrikaans or English				Mathematics				Physical Science					
AGRICULTURAL AND FOOD SCIENCES	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	APS	
BScAgric (Animal Science) [4 years] Closing dates: SA - 30 September Non-SA - 31 August														
BScAgric (Animal Science/Pasture Science) [4 years] Closing dates: SA - 30 September Non-SA - 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30	
<p>Careers: Animal science is a career that makes an important contribution to agriculture in South Africa. This career is focused on the application of the scientific aspects of animal production and quality control of the products to ensure consumer satisfaction. It is a field of science, subject to the most recent research and needs of both animals and humans. There are numerous career opportunities for animal and wildlife scientists in research, commercial farming, the public sector and for professionals in the animal science industry. Animal scientists can work on different levels in these sectors, ranging from researchers, animal nutrition or breeding consultants, technical representatives, game managers and policy-makers. The BScAgric (Animal Science) degree is acknowledged as a professional qualification by the South African Council for Natural Scientists in terms of Act 106 of 1993, and is recognised internationally.</p>														
BScAgric (Plant Pathology) [4 years] Closing dates: SA - 30 September Non-SA - 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30	
<p>Careers: Seed cultivators, farmers, researchers, lecturers, consultants</p>														
BScAgric (Applied Plant and Soil Sciences) [4 years] Closing dates: SA - 30 September Non-SA - 31 August	5	3	C	C	5	3	C	C	5	3	C	C	30	
<p>Careers: Education and training at schools and academic institutions. Research and management at various public and private institutions Public sector: The Agricultural Research Council (ARC), Department of Water and Environmental Affairs, Department of Tourism, Department of Agriculture, Forestry and Fisheries, Department of Mineral Resources, Department of Energy, the CSIR, provincial agriculture and nature conservation departments, the South African National Biodiversity Institute, municipalities, South African National Parks, national farming and food production agencies, etc. Private sector: Companies involved in seed, fertilizer and plant protection research and development, environmental planning and management, nurseries, vegetable, fruit and ornamental cut flower production, irrigation, etc. Extension services involving knowledge transfer: Nature conservation, national and provincial departments of agriculture and the environment, environmental management and rehabilitation, nurseries, crop, turf grass and weed management, private companies servicing field crops, vegetables, medicinal and aromatic plants, fruit, ornamental and cut flower production, etc. Entrepreneurial: Consultants in crop, pasture, vegetable, medicinal and aromatic plants, ornamental and cut-flower production systems and landscaping enterprises. Management of own farms and nurseries for extensive (field) or intensive (tunnel/greenhouse) production systems involving various crops. Managing companies specialising in irrigation, reclamation and soil conservation</p>														
<p>Agricultural and Food Sciences study programmes: Candidates who do not comply with the minimum admission requirements may be considered for admission to the BScAgric or the BSc (Four-year Programme), based on the results of the NBT. Please note that students who are placed in the BSc (Four-year Programme) will take a minimum of five years to complete the BScAgric study programme.</p>														
<p>NOTE: In 2015 BSc (Plant Science), BScAgric (Plant Pathology) and BScAgric (Applied Plant and Soil Sciences) will resort under one School. The curriculum may change, please keep informed by visiting our website at www.up.ac.za</p>														

Undergraduate study programmes

Natural and Agricultural Sciences

Study programme Duration Closing dates Careers	Minimum requirements for 2016								APS
	Achievement level								
	Afrikaans or English				Mathematics				
MATHEMATICAL SCIENCES	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	
BSc (Mathematical Statistics) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	6	2	B	B	32
<p>Careers: Financial institutions: Statisticians specialising in economic applications of statistics (econometrics) deal with aspects such as national production and expenditure, international economic relations, employment, public finance and related issues. In the insurance business, statisticians are employed in areas such as actuarial work, marketing, share investments and property investments. Market research organisations play an indispensable role in the gathering of information that is used to improve the quality of decision-making in various industries.</p> <p>Industry: Statisticians are increasingly employed in industries such as mining and production, and government corporations, for example, Eskom, Sasol, AECL, and the pharmaceutical industry in general. Organised agriculture is another vitally important industry where sophisticated statistical techniques are used to meet the growing demand for food and services.</p> <p>Research councils: Research councils and educational institutions are well-known large employers of scientists of diverse disciplines and employ statisticians to ensure scientifically founded research outputs. These include the MRC, the CSIR, the ARC and the HSRC. Statisticians are also involved in the training of students at universities. The challenges of modern education and good research are of great relevance, especially in South Africa.</p> <p>The public sector: The government employs statistically proficient people in many of its departments, the most prominent being Statistics South Africa. This department is responsible for the five-yearly population census and the calculation of well-known economic indicators like the inflation rate.</p>									
<p>Mathematical Sciences study programmes: Candidates who do not comply with the minimum admission requirements for BSc (Actuarial and Financial Mathematics) and who obtained an APS of 30 to 33 and a minimum of 6 for Mathematics may be considered for admission to BSc (Actuarial and Financial Mathematics) or another degree in Mathematical Sciences based on the results of the NBT. Candidates who do not comply with the minimum admission requirements of the other study programmes may be considered for admission to BSc (Mathematics) or BSc (Mathematical Statistics) or for the BSc (Four-year Programme) based on the results of the NBT.</p>									
BSc (Four-year Programme) – Mathematical Sciences NBT compulsory BSc (Actuarial and Financial Mathematics): Admissions from the BSc (Four-year Programme) to the BSc (Actuarial and Financial Mathematics) study programme will only be considered if students have passed all their first-year modules with an average percentage of at least 60% as well as a minimum percentage of 60% for WTW 143 and WTW 153.	4	3	D	D	5	3	C	C	26

Undergraduate study programmes

Law

Important information on undergraduate study programmes for 2016

• In order to register for degree programmes, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as the minimum requirements for the relevant study programme. • Life Orientation is excluded when calculating the Admission Point Score (APS). The following persons may also be considered for admission: a candidate who is in possession of a certificate that is deemed by the University to be equivalent to the required Grade 12 certificate with university endorsement; a candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution; and a candidate who is a graduate of another faculty at the University of Pretoria.

Note: • A conditional exemption certificate is not accepted for admission to LLB studies. • Only applicants who comply with all the above-mentioned admission requirements will be considered for admission. • Candidates who obtained a BA (Law) or BCom (Law) degree at UP will not be subjected to a selection process and will automatically be admitted to register for the LLB degree. • International students must obtain a full exemption certificate from Higher Education South Africa (HESA) before they will be considered for admission. • All students who commenced with their studies for BA (Law), BCom (Law) and LLB prior to 2013, irrespective of the institution, have to register for and complete the LLB according to the 2012 curriculum. Students who are admitted as first-year students at UP in 2015 have to register for the new curriculum. • LLB is a full-time four-year programme. Students are not permitted to obtain full-time employment while registered for LLB.

University of Pretoria website www.up.ac.za/law

Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
	Afrikaans or English				
	NSC/ IEB	HIGCSE	AS- Level	A- Level	
LLB [4 years] Closing dates: SA – 30 September Non-SA – 31 August	5	3	C	C	32*
Faculty selection: A limited number of students are admitted.					
*Candidates with an APS of 32 or higher will, on receipt of their applications, be accepted on a continuous basis until 30 September or until all available places have been taken. Candidates with an APS of 38 or higher will be accepted on a continuous basis until registration in January of the next academic year, irrespective of the number of candidates already accepted.					
Careers: Advocates, attorneys, prosecutors, magistrates, legal advisors and academics					
BA (Law) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	Refer to the Faculty of Humanities				
Careers: Refer to the Faculty of Humanities					
BCom (Law) [3 years] Closing dates: SA – 30 September Non-SA – 31 August	Refer to the Faculty of Economic and Management Sciences				
Careers: Refer to the Faculty of Economic and Management Sciences					

Undergraduate study programmes

Education

Important information on undergraduate study programmes for 2016

• In order to register for degree programmes, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as the minimum requirements for the relevant study programme. • Life Orientation is excluded when calculating the APS. • Prospective students with an APS of 26-29 must write the National Benchmark Test (NBT). Final admission is determined by the Admissions Committee of the Faculty and is based on the results of the NBT. • As soon as candidates are admitted to the BEd degree, they will be informed that they must register at the University in January of the following year. It is in the interest of prospective students to apply as soon as possible, particularly in respect of financial support and/or residence placement.

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016				
	Achievement level				APS
	Afrikaans or English				
	NSC/IEB	HIGCSE	AS-Level	A-Level	
BEd (Early Childhood Development and Foundation Phase) – Pre-primary to Grade 3 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in pre-primary or primary schools	4	3	D	D	30 (26–29 admission based on the NBT)
BEd (Intermediate Phase) – Grades 4 to 6 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in primary schools	4	3	D	D	30 (26–29 admission based on the NBT)
BEd (Senior Phase) – Grades 7 to 9 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in primary or secondary schools	4	3	D	D	30 (26–29 admission based on the NBT)
BEd (FET) (General) – Grades 10 to 12 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in secondary schools	4	3	D	D	30 (26–29 admission based on the NBT)
BEd (FET) (Human Movement Sciences and Sport Management) – Grades 10 to 12 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in secondary schools	4	3	D	D	30 (26–29 admission based on the NBT)

Study programme Duration Closing dates Careers	Minimum requirements for 2016												
	Achievement level											APS	
	Afrikaans or English				Mathematics				Physical Science				
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level		A-Level
BEd (FET) (Natural Sciences) – Grades 10 to 12 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in secondary schools	4	3	D	D	5	3	C	C	5	3	C	C	30 (26–29 admission based on the NBT)
BEd (FET) (Economic and Management Sciences) – Grades 10 to 12 [4 years] Closing dates: SA – 30 September Non-SA – 31 August Careers: Teachers and training officials in secondary schools	4	3	D	D	4	3	D	D	-	-	-	-	30 (26–29 admission based on the NBT)

Undergraduate study programmes

Veterinary Science

Important information on undergraduate study programmes for 2016

- All study programmes in this Faculty include selection procedures, which are based on academic merit, the result of the National Benchmark Test (NBT) and a value-added questionnaire. Applicants, who indicate BVSc or DipVetNurs as their first choice, will be given preference. In order to retain provisional admission candidates should still comply with the minimum subject and Admission Point Score (APS) requirements based on their National Senior Certificate (NSC) results.
- In order to register for the University degree or diploma, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies, as well as the minimum requirements of the study programme.
- Life Orientation is excluded when calculating the APS.

University of Pretoria website www.veterinary.up.ac.za

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016																APS				
	Achievement level																				
	English				Mathematics				Life Sciences				Physical Science								
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level					
BVSc (Bachelors degree in Veterinary Science) [6 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C									5	3	C	C	32
<p>The NBT and the value-added questionnaire are compulsory components of the selection process. Applicants with an APS between 30 and 32 will be considered for access into the BSc (Four-year Programme) – Biological and Agricultural Sciences. Candidates in this category are admitted into the second semester of the first year of BVSc, after successful completion of the first three semesters of the BSc (Four-year Programme).</p> <p>Careers: Veterinarians in private practice, research, academia or state veterinary services. Veterinarians can also work in the following fields: 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 and pig production and animal welfare.</p>																					
DipVetNurs (Diploma in Veterinary Nursing) [2 years]* Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	4	3	D	D	4	3	D	D	24
<p>The NBT and the value-added questionnaire are compulsory components of the selection process.</p> <p>Careers: Veterinary nurses can be employed by the following institutions: private veterinary practices, veterinary academic hospitals, the pharmaceutical industry, the animal food industry, animal welfare societies, zoological gardens, game parks, laboratory animal units, rehabilitation centres, research centres, animal boarding establishments, organised agriculture, dairies and farming operations.</p>																					

*The University plans to offer a three-year Veterinary Nursing Degree, which will be introduced in 2015/16 (pending approval). The Diploma in Veterinary Nursing will therefore be phased out and the last intake for this two-year diploma will be in 2015/16 (pending approval).



University of Pretoria

OPEN DAY

23 May 2015
08:00-14:00

The following persons should attend the UP Open Day:

- Learners in Grade 12 who already received confirmation that they are provisionally admitted to UP
- Learners in Grade 12 who meet the admission requirements and wish to hand in their application forms
- Learners in Grade 11 who are fairly certain they will apply at UP
- Parents of the above learners

www.up.ac.za



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