

University of Pretoria

Undergraduate programme information

University of Pretoria campuses and contact information

Department of Enrolment and Student Administration

+27 (0)12 420 3111 Email Website csc@up.ac.za 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 our campuses

 Hatfield
 \$25*45'21" E28*13'51"

 GIBS
 \$26*07" 46.2" E28*02' 46.788"
 (56 km from Hatfield Campus) S25 °46′ 10″ E28 °12′ 34″ Groenkloof (3.5 km from Hatfield Campus) **UP Sports Campus** S25°45′ 10″ E28°14′ 46′ (1.2 km from Hatfield Campus) S25 ° 43' 22" E28 ° 23' 56" Mamelodi (12 km from Hatfield Campus) S28°10′54″ E25°38′52″ Onderstepoort (22 km from Hatfield Campus) S25°43′ 57″ E28°12′ 10 Prinshof (6 km from Hatfield Campus)

Admission requirements

The statutory minimum requirements for degree studies is a National Senior Certificate (NSC)/ Independent Examination Board – IEB, 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
- History
- Geography
- Information Technology Languages* Life Sciences
- Mathematical Literacy
- Mathematics
- Music
- Physical Science Religion Studies
- *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 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 and it is used for provisional admission. 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 Universities South Africa (www.universitiessa.ac.za). Additional selection criteria are applicable in applications for selection programmes. 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 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.

Special offer to academic achievers

(New first-year students in 2016)

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 programmes. Please refer to the relevant programmes in this information product.

Contact information

Tel +27 (0)21 650 3523 Email nbt@uct.ac.za Website www.nbt.ac.za

Application for admission

- Applications open on 1 March of the year preceding the year of study. Application forms must reach the University before the closing dates indicated in red at the bottom of the faculty
- It would not be prudent to indicate a selection programme as second choice on your
- We recommend that you apply online at www.up.ac.za/apply.
 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.

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. Where the University has the capacity, Sepedi is used as an additional language of communication.

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

- Eduloan: www.eduloan.co.za
- The Bursary Register: +27 (0)11 672 6559 rlevin@mnet.co.za Email
- Website www.gostudy.mobi www.bursary.hcifoundation.co.za

(based on the ex-	SSION amination results you apply)		ACHIEVEME (based on the final school	RESIDENCE PLACEMENT (based on the examination results with which you apply)				
				FACULTIES				
alifying academic erage percentage	Admission to study	Qualifying academic average percentage	Natural and Agricultural Sciences and Engineering, Built Environment and Information Technology	Health Sciences and Other faculties Veterinary Sciences		Qualifying academic average percentage	Residence placement	
75%-100%	Guaranteed admission to your first or second	75%-79.99%	R6 400			85%-100%	Guaranteed placement in a UP residence if your	
	choice open programme (not applicable to selection	80%-84.99%	R16 000	R6 400	R16 000		application is received not later than 30 May of the	
a _l la	programmes) if your application is received not later than 1 May of the	85%-89.99%	R25 000	R13 000	R25 000		year preceding commencement of studies and once you are	
	year preceding commencement of studies.	90%-100%	R40 000	R20 000	R40 000		provisionally admitted to a programme.	

^{*}Independent Examination Board (IEB)

UP banking details

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

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. Please note that the demand for residence accommodation exceeds the availability and admission to a 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. For more information, please visit www.up.ac.za/accommodation.

Security services

Please take note of the contact information for the Department of Security Services.

24 hour UP Operational Manager +27 (0)83 654 0476 24 hour UP Operational Management Centre +27 (0)12 420 2310/2760 +27 (0)80 000 6428 (toll-free) 24 hour crisis line

International students

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 before they will be able to register.

Contact information

+27 (0)12 420 3111 Tel **Fmail** csc@up.ac.za www.up.ac.za/ISD Website

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:
- - 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)

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.

Universities South Africa

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 enroll for undergraduate studies at the University of Pretoria. This certificate can only be obtained from Universities South Africa.

Contact information

+27 (0)12 591 4401/2 **Fmail** admin@universitiessa.ac.za Website www.universitiessa.ac.za

Admission Point Score (APS) conversion

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

Admission Point Score 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	18 8T	IGCSE/GCSE/ NSSC OL/O-Level Grade 11*	IGCSE/GCSE/ NSSC OL/O-Level Grade 12**
7	7 (80–100%)	Α		1	Α	7	А	
6	6 (70-79%)	В	Α	2	В	6	В	
5	5 (60-69%)	С	В	3	С	5	С	Α
4	4 (50–59%)	D	С	3	D	4	С	В
3	3 (40-49%)	Е	D	4	Е	3	D	С
2	2 (30–39%)	F	Е			2	Е	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 purpos APS conversion for Grade 12 equivalent qualifications – not for final admission and must be taken together wit Advanced Subsidiary Level and Advanced Level for exemption purposes

Admission Point Score Conversion Table only for Cambridge Advanced Level and

A	PS		
Required level for subjects	Required level for overall APS	A-Level	IB HL
7	10	Α	7
6	8	В	6
5	7	С	5
4	6	D	4
3	5	E	
2	4		
1	3		

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

ΙR 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

Ordinary Level O-Level

UP Open Day

Date 21 May 2016 08:00-14:00 Time

The following persons should attend the UP Open Day:

- Learners in Grade 12 who already received confirmation that they are provisionally admitted
- 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

Published by the Department of Enrolment and Student Administration in December 2015. Comments and queries can be directed to csc@up.ac.za or Tel +27 (0)12 420 3111.

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Closing dates are indicated by means of a footer number that is beside the name of the rogramme. Refer to the dates at the bottom of the tables on each page.



Economic and Management Sciences

Important information on undergraduate programmes for 2017

- The following persons will 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.

 Life Orientation is excluded when calculating the APS.

			Minim	num re	quirem	ents fo	r 2017		
Programme			Ac	hieven	nent le	vel			
. Togramme			or Engl				matics		APS
BCom (Accounting Sciences) ³	NSC/IEB	HIGCSE 3	AS-Level	A-Level	NSC/IEB	HIGCSE 2	AS-Level B	A-Level B	34
3 years] Careers: First step towards qualifying as chartered acco	ountants ar	nd other	categor	ies of ac	countan	ts. finan	cial man	agers, ir	nterna
auditors, bookkeepers, bankers, táxation practitioners a BCom (Investment Management) ³	ind advisor	s, cost a	nd man	agemen	t accoun	tants ar	a creait B	control	ers 34
[3 years] Careers: Funds manager, investment advisors, finar								_	
inancial managers, investment brokers and investment	ent analys	sts	lageme	in acco	untants	, iiiaiiag	ement	COLISCIE	ai ita,
BCom (Financial Sciences) ³ [3 years]	5	3	С	С	5	3	С	С	32
Careers: Specialisation in financial managements hanagers, quality managers, financial advisors, strateg specialisation in taxation: Tax advisors, tax auditors managers, SARS auditors and tax risk managers specialisation in internal auditorg; Internal auditors, openformance auditors, environmental auditors, compli	y analysts, in public p risk office	cost ac ractice, t rs, forer	countan tax polic sic audi	ts, finan y desigr tors, IT a	cial man ners, tax auditors,	agers, fi practitio financia	nancial ners, ta: Il audito	planner x compl rs,	s and
BCom (Econometrics) ³ [3 years]	5	3	С	С	6	2	В	В	32
Careers: Econometricians are employed by gove stockbrokers and consultancies, both locally and raders or brokers, and academics. The work mostly of economic and financial markets and interrelation	/ entalis si	he cen nally. P atistica	tral bar ositions I analysi	nk, priv include is (forec	ate and e analys asting, s	comm ts, cons structur	ercial b sultants al and p	anks, I , resea oolicy ar	eadin rchers nalysis
BCom (Economics) ³ [3 years]	5	3	С	С	5	3	С	С	32
Careers: Economists may specialise in banking, public Economists are employed by government, the central consultancies, both locally and internationally. Position	finance, in bank, priva s include a	ternatio ate and analysts,	nal trad commer consult	le and in rcial ban ants, res	ivestmer iks, stock searcher	nt or eco broker s, trader	onomic o age firm as and a	develop s and cademic	ment. :s.
BCom (Law) ³ 3 years]	5	3	С	С	5	3	С	С	32
Careers: First step towards becoming attorneys, legudge) and law academics	al advisor:	s, advoc	ates, pr	osecuto	ors, pres	iding of	ficers (r	nagistra	ate or
BCom (Statistics) ³ [3 years]	5	3	С	С	5	3	С	С	32
Careers: Statistical analysts in several industries, res	searchers,	consult	tants an	d lectur	ers				
BCom (Informatics) ³ Focus area: Information Systems 3 years]	5	3	С	С	4	3	D	D	30
Careers: Manager in information technology enviro systems analyst, financial information systems analy feveloper, business systems analyst	nment, co st, busine:	mputer ss analy	softwar st, infor	re or ha mation	rdware facilitato	support or, IT tra	er, com ining, sy	puter /stems	
BCom (Agribusiness Management) ³ [3 years]	5	3	С	С	5	3	С	С	30
Careers: Agricultural economist at banks and other ag narkets	ricultural a	and food	d-orienta	ated inst	itutions,	commo	dity trac	der on fi	uture
BCom (Recreation and Sports Management) ³ [3 years]	5	3	С	С	4	3	D	D	30
Careers: Sport facility managers, sport event organi	sers, spor	t and re	creation	n mana;	gers and	d sport r	marketir	ng man	agers
3 years]	5	3	С	С	4	3	D	D	30
Careers: The degree does not lead to a specific voca outcome, within limits. Students are able to compile t	heir own o	ome, bi turricula	ut offers with a v	opport view to	unities t work op	o deteri portunit	nine yo ies in al	ur own I sector:	caree S.
BCom (Entrepreneurship) ³ 3 years]	5	3	С	С	4	3	D	D	30
Careers: Running of entrepreneurial activities and busin manager, sales manager, shop manager, entrepreneur,		rate en manage	treprene r, busine	eur, men ess owne	tor to ar er, retail-t	entrepi rade ma		administ	rative
BCom (Business Management) ³ 3 years]	5	3	С	С	4	3	D	D	30
Careers: A wide variety of opportunities in administ ncluding manager, teacher, lecturer, general manage	ration, fina ger, manag	ance, m gement	arketing consult	and hu	ıman re	source i	manage	ment,	
BCom (Supply Chain Management) ³ 3 years]	5	3	С	С	4	3	D	D	30
Careers: The purpose of this programme is to equip n functional management within an integrated supp production and operations management, warehous	oly chain. 1	This incl	udes th	e discip	lines of	supply r	manage	o partio ment,	ipate
BCom (Marketing Management) ³ 3 years]	5	3	С	С	4	3	D	D	30
Careers: Product management, customer service m marketing, sales management, distribution manager marketing research management and promotions n	nanageme ment, brar nanageme	nt, cust nd man	omer re agemen	lationsh it, adver	nip mana tising m	agemen anagen	it, strate nent, me	egic edia pla	nning
BCom (Human Resource Management) ³ 3 years]	5	3	С	С	4	3	D	D	30
Caracret Human recourse practitioners personnel	concultant	to modi	atore la	hourre	lations	cnocialia	etc hum	220 500	ource

5 3 C C 4 3 D D 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 – Extended programme³ [4 years] 4 3 D D 3 4 E E 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.

Careers: Career opportunities depend on the field of study chosen by students in their second year of study.

BAdmin (International Relations)³
[3 years] D 3 D

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. Careers: Diplomats, public servants, political analysts

28 [3 years]

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.

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.

Health Sciences

ortant information on undergraduate programmes for 2017

- The following persons will 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. Life Orientation is excluded in the calculation of the APS.

 Grade 11 final examination results, the NBT results as well as a Value-added Questionnaire will be used for the provisional admission of prospective students.

 Admission to Health Sciences 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 programme except where intergovernmental agreements are in place. For selection purposes the sum of the results in six subjects, includine English, Mathematics and Physical Science, is

- For selection purposes the sum of the results in six subjects, including English, Mathematics and Physical Science, is
- Candidates, please note that your APS may not drop with more than two points in your final school examination results in order to maintain your provisional admission.

 Please note that compliance with the minimum admission requirements does not necessarily guarantee admission to any programme in this Faculty.
- Selection gueries may be directed to healthapplications@up.ac.za.

University of Pretoria website

www.un.ac.za/health

					Minin	num re	quirem	ents fo	r 2017				
Drogramme					Ac	hieven	nent lev	/el					
Programme		Eng	lish			Mathe	matics		- 1	Physica	Science	е	APS
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
School of Dentistr	у												
BChD – Bachelor of Dental Surgery ¹ [5 years]	5	3	С	С	5	3	С	С	5	3	С	С	35
Selection is based o Careers: Dentists, s	n Grade	11 resus, acade	ults, the emics ar	NBT and	d the Va rchers	lue-add	ed Ques	tionnair	e.				
BOH – Bachelor of Oral Hygiene ¹ [3 years]	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based o		11 resu	ults and	the NB1	ī.								
Career: Oral hygien School of Healthca		nces											
BDietetics – Bachelor of Dietetics ¹ [4 years]	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based o	n Grade	11 resu	ults, the	NBT and	d the Va	lue-add	ed Ques	tionnair	e.				
Career: Dieticians BNurs – Bachelor of Nursing Science ¹ [4 years]	4	3	D	D			-				-		28
Selection is based o English, Mathematic subjects.	s, Physi	cal Scier	nce, Biol	ogy or P	hysiolog	gy are no	ot comp	ulsory s	nd an int ubjects,	terview. but they	are rec	ommen	ded
Careers: General nu	ursing, p	sychiatr	ic nursi	ng, midv	vitery ar	id comn	nunity ni	ursing					
BOccTher – Bachelor of Occupational Therapy ¹ [4 years]	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based o Careers: Occupatio	n Grade	11 resu	ults, the	NBT and	d the Va	lue-add	ed Ques	tionnair	e.				
BPhysio – Bachelor of Physiotherapy ¹ [4 years]	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based o	n Grade	11 resu	ults, the	NBT and	d the Va	lue-add	ed Ques	tionnair	e.				
Careers: Physiother BRad – Bachelor of Radiography ¹	rapists, a	academi 3	cs and r	esearch D	ers 4	3	D	D	4	3	D	D	25
[3 years] Selection is based o Taking Life Sciences	n Grade and Ph	11 resu vsiology	ults, the	NBT and	d the Va ded for	lue-add BRad, bu	ed Ques ut these	tionnair subject	e. s are no	t compu	ılsory.		
Careers: Radiograp	hers, ac	ademics	and re	searche	rs								
School of Medicine BClinical Medical	e												
Practice – Bachelor of Clinical Medical Practice ¹ [3 years]	4	3	D	D	4	3	D	D			-		25
Selection is based o Physical Science and Careers: Clinical ass	d Life Sc	iences a	re not c	ompuls	ory subj	l Inform ects, bu	ation Fo t will be	rm. an adva	ntage fo	or select	ion purp	oses.	
MBChB – Bachelor of Medicine and Surgery ¹ [6 years]	5	3	C	С	5	3	С	С	5	3	С	С	35
Selection is based o	n Grade	11 resu	ults, the	NBT and	d the Va	lue-add	ed Ques	tionnair	e.				
Careers: General m BSportSci (Sports	edical p	ractition	ners, spe	cialísts	(after po	stgradu	ate trair	ning)	ы	hysical S	Cienco	or	
Science) – Bachelor of Sports Science ¹ [3 years]	5	3	С	С	5	3	С	С	5		iences	C	30
Selection is based o Please note: At the specific Sports Scier a duration of two ye Careers: Sports Scie	end of t nce curr ars and	the seco culum o selectio	nd year or Biokir on is bas	, selection etics cu ed on a	on will ta rriculum cademic	ake place n. Appro : merit.	e on aca ximately	demic r 20 plac	nerit an es are a	available			
Higher Certificates in					cucs	J. 10 (110	Sporta	CACI		rikaans	or Engl	ish	
HCert (Sports Science [1 year]										HIGCSE			APS
HCert (Sports Science [1 year] Soloction is based of			le -	C	2			D'	4	3	D	D	15
		I FACT	lite and		1 chart		minmon	c Plane	e take n	into that	minche t	or tha	



Careers: Sports coaching, sports and exercise industry



Selection is based on Grade 11 results and Grade 12 sporting achievements. Please take note that places for the Higher Certificate in Sports Science are preferentially offered to applicants who are nominated by one of the official UP sports





Humanities

Important information on undergraduate programmes for 2017

- The following persons will be considered for admission: a candidate who is in possession of a certificate that is deemed The following persons will 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 I 2 certificate with university endorsement; a candidate who is a graduate of another faculty at the University of Pretoria.

 Candidate who is a graduate of another faculty at the University of Pretoria.

 Candidates who comply with the minimum subject requirements and achievement levels as well as the APS requirements of these programmes will be granted placement in the programmes, subject to the availability of space. The abovementioned 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 the engrenating at least an APS of 77 in
- To retain admission, learners will be expected to obtain an Ars of at least 2.8 in Grader 12.4 Prospective students wno have already been granted provisional admission in these programmes, but obtained at least an APS of 27 in Grade 12, will be consider these students committee should spaces 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 disadvantaged category of the population.

 Applicants who meet the minimum APS requirement, but who do not comply with the subject requirements must write the NBT.
- the NBT.
 - Life Orientation is excluded when calculating the APS.

University of Pretoria website www.up.ac.za/gw National Benchmark Test website www.nbt.ac.za

BA AND BA – EXTENDED PROGRAMME										
	Minimum requirements for 2017									
Programme	Achievement level									
BA AND BA – EXTENDED PROGRAMME	Afrikaans or English AP									
BA AND BA - EXTENDED PROGRAMME	NSC/IEB	HIGCSE	AS-Level	A-Level						
BA ³ [3 years] BA – Extended programme ³ [4 years]	5	3	С	С	30					

The BA – Extended programme takes place over a period of four yea students cannot apply for this programme. The Faculty's Admission (in this programme. A limited number of places are available. Grade 11 will be considered for the BA - Extended programme, base **Careers**: Students who complete the BA have access to a wide range other programmes can be recommended to students who choose if

approach the academics in the recongrow for advice.

Please note that students, who wish to follow a career as a psychology as a major as well as the BSocS competed a bar degree with psychology as a major as well as the BSOCS Counselling Psychology).

Careers: Clinical, counselling (sport and community) and research psy

PROFESSIONAL PROGRAMMES											
Drogrammo	Minimum requirements for 2017										
Programme	Achievement level										
SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY		Mathe	matics		Any two languages of which Afrikaans or English should be one				APS		
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level			
BA (Speech-Language Pathology)² [4 years]	4	3	D	D	5	3	С	С	30		

epartmental selection is based on academic achievement. To retain a 'S of at least 28 in Grade 12. Only 40 students are admitted. The pro rar preceding the first year of studies. More information can be obtain ar of Audiology and Speech-Language Pathology is the same. The ch

or in private practices.	vork in ei	ducation	and spec	ciai educa	ation, nos	spitals, cili	nics, rura	commur	nities
BA (Audiology) ² [4 years]	4	3	D	D	5	3	С	С	

Departmental selection is based on academic achievement. To retain a APS of at least 28 in Grade 12, Only 40 students are admitted. The proyear preceding the first year of studies. More information can be obtain year of Audiology and Speech-Language Pathology is the same. The ch Careers as an audiologist: Diagnostic and rehabilitative audiology, au special education, hospitals, clinics, private practice, government, milia

SOCIAL WORK	At	Afrikaans or English					
SOCIAL WORK	NSC/IEB	HIGCSE	AS-Level	A-Level	APS		
BSW – Bachelor of Social Work³ [4 years]	5	3	С	С	30		

al selection takes place at the end of the first year and is Career: Social worker

LAW	A	ADC			
LAW	NSC/IEB	HIGCSE	AS-Level	A-Level	APS
BA (Law) ³ 13 years	5	3	С	С	30

Career: Lawyer (BA (Law) degree plus the LLB degree required)

SPECIALISED PROGRAMMES										
Programme		Minimum requirements for 2017								
Programme	Achiev	Achievement level								
LANGUAGES	Afrikaa	Afrikaans or English								
	NSC/IEB HIGO	E AS-Level	A-Level							
BA (Languages) ³ [3 years]	5 3	С	С	30						

Careers: Advertising media and communication, copywriting, creative planning, language teaching and training, lexicography (compilation of design, translation, publishing, diplomatic sector, tourism. It is recomm language practitioners) and to specialise in these fields, students conti Writingl or a BAHons (Applied Language Studies) on completion of the Certificate in Education, students are equipped to enter the teaching;

		cilievell	nent leve	S1.			143	C/IEB
	At	frikaans	or Englis	sh	APS	BPolSci (International Studies)³ [3 years]	5	
	NSC/IEB	HIGCSE	AS-Level	A-Level		Careers: International relations, diplomatic service, political consultation, conflic governance, international political economics and risk analysis	t resolutio	n
	5	3	С	С	30	BPolSci (Political Studies) ³ [3 years]	5	
e inetoa	d of the no	ormal thr	oo voare	Prospos	tivo	Careers: Policy analysis and consultation, political analysis and communicate intelligence, political development and mobilisation and risk analysis	ation, gove	9
mmitte applica	e determi ints who h	ines whic nave achi	:h studen	nts will be	placed	SPORT AND LEISURE STUDIES		,
of care	results of ers. Many cause it is	of the ca	reers ind	icated un	nder		NSC/IEB	
ologist a iciHons (l	structure fter comp sychology registere	ed progra letion of t	mmes. S the BA de MA (Clin	tudents s egree, sho iical or	should	BA (Sport and Leisure Studies)* Focus areas (choose one): Sport and Recreation Management Sports Psychology Sports and Leisure in Society Sports Coaching Science [3 years]	5	
AMMES						Careers: Sport, recreation, health and fitness industry, sports marketing, tea facility managers, sports developers	achers, coa	C
mum r	equireme	ents for	2017			FINE ARTS, INFORMATION DESIGN, VISUAL STUDIES, MUSIC AND DRAMA		Α
chieve	nent lev			and a land		BA (Fine Arts) ²	NSC/IEB	
		wo langu frikaans should	or Englis		APS	[4 years]	5	
ovisional s ined fron	NSC/IEB 5 n, candida election p the progress fe Science	HIGCSE 3 tes will be rocess coramme o	AS-Level C e expecte ommence rganiser.	C ed to achi es in July o The first :	of the study	Departmental selection for this degree programme involves a ment selection well as the submission of a questionnaire and a portfolio of at least 20 recer Department of Visual Arts by 30 June. Detailed information about the selection be obtained at www.up.ac.ac/visualarts. Based on the questionnaire and you qualify to continue with the final selection process. If your ment selection the final selection process, which consists of visualisation tests, practical test takes place during August. You will be notified by end August of the result of applicants will be invited to take part in the final selection process. Careers: Gallery managers, arts facilitators, art consultants/advisors, art eduredia, artists in applied arts	nt works, w ion process d the portfo n was succ s and an ir f the final s	100000000000000000000000000000000000000
	ation, hos					BA (Information Design)² [4 years]	5	
noice of L	the progr fe Science and hear ademic in	es is stror	igly recor	nmended in educating, resear	d.	you qualify to continue with the final selection process. If your merit selection the final selection process, which consists of visualisation tests, practical test takes place during August. You will be notified by end August of the result of applicants will be invited to take part in the final selection process. Careers: Animators, graphic designers, illustrators, interaction designers, coproduction managers, designers of animation and mover designers, typographers for advertising and branding agencies; publishing it	s and an ir f the final s	el
ary ariu a		frikaans HIGCSE 3	AS-Level	A-Level	APS 30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators	ndustries; v statal orga	ve ni:
	A: NSC/IEB	HIGCSE 3	AS-Level	A-Level C	30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; p	ndustries; v statal orga	ve nis
	NSC/IEB	HIGCSE 3	AS-Level	A-Level C	30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture edu	ndustries; v statal orga printers an	veb nisa d p
	NSC/IEB 5 n academ	HIGCSE 3 iic merit, frikaans	AS-Level C psychom	A-Level C netric test	30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture editions of the consultants and media analysts BA (Music) ²	ndustries; v statal orga printers an	web onisated pro
	A NSC/IEB 5 n academ A NSC/IEB	HIGCSE 3 iic merit, frikaans	AS-Level C psychom or Englis AS-Level	A-Level C netric test sh A-Level	30 s and	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture eduvisual consultants and media analysts BA (Music) ² [3 years]	statal orgal printers an 5 ucators, art	web de: nisation d prod 3
based c	NSC/IEB 5 n academ	3 ic merit, frikaans HIGCSE	AS-Level C psychom	A-Level C netric test	30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture editions of the consultants and media analysts BA (Music) ²	dustries, vistatal orgal organization organ	web denisation denisation dent or histor
	A NSC/IEB 5 n academ A NSC/IEB 5	3 iic merit, frikaans HIGCSE	AS-Level C psychom or Englis AS-Level C	A-Level C netric test sh A-Level	30 s and APS 30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture edivisual consultants and media analysts BA (Music) ² [3 years] Departmental selection: Prospective students must be able to sing or play equivalent to approximately Grade V Practical (Unisa/Royal Schools/Tinity) during an audition. Careers: Arts and culture teachers at schools (Grade R-9) or music centre pre-school learners, music entrepreneurs, song arrangers for school-base for productions, choreographers for revues and singing games, choir cond	dustries, vistatal orgal organization organ	3 sent on a graduatic factorial and a gradua
based c	A NSC/IEB 5 n academ A NSC/IEB 5	3 iic merit, frikaans HIGCSE	AS-Level C psychom or Engli: AS-Level C	A-Level C setric test A-Level C C ents for	30 s and APS 30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture eduvisual consultants and media analysts BA (Music) ² [3 years] Departmental selection: Prospective students must be able to sing or play equivalent to approximately Grade V Practical (Unisa/Royal Schools/Trinity) during an audition. Careers: Arts and culture teachers at schools (Grade R-9) or music centre pre-school learners, music entrepreneurs, song arrangers for school-base for productions, choreographers for revues and singing games, choir cond playing group music instruments, such as African drums, steel drums and in BMus ² [4 years]	dustries, y statal orga statal	web desinisation: d produ 3 t historia 3 ment on my Grade usic faci nts, cre- tanisers
based c	A NSC/IEB 5 n academ NSC/IEB 5 Mini	HIGCSE 3 iic merit, frikaans HIGCSE 3	AS-Level C psychom or Engli: AS-Level C cquiremment lev or Engli:	A-Level C netric test sh A-Level C ents for	30 s and APS 30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture edivisual consultants and media analysts BA (Music) ² [3 years] Departmental selection: Prospective students must be able to sing or play equivalent to approximately Grade V Practical (Unisa/Royal Schools/Trinity) during an audition. Careers: Arts and culture teachers at schools (Grade R-9) or music centre pre-school learners, music entrepreneurs, song arrangers for school-base for productions, choreographers for revues and singing games, choir cond playing group music instruments, such as African drums, steel drums and in BMus ² [4 years] Departmental selection is based on a practical singing or instrument perfortest. Required subjects: Music with at least a 4 (50-59%) as Grade 12 subjects: Music with at least a 4 knowledge of music notation. Stude BMus must undergo another practical selection test. The date of this selection for the selectio	statal orga statal orga printers and 5 ucators, and 5 an instrum and Theo s, group m d instrume uctors, orga marimbas 5 rmance of ct, or Grad ents who he	alent on a sy Grade usic facianisers 3 alent on a sy Grade usic facianisers 3 15 minue e VII Pra ave bee
based c	A NSC/IEB A NSC/IEB	HIGCSE 3 ic merit, frikaans HIGCSE 3 imum recchieven frikaans HIGCSE	AS-Level C psychom or Engli: AS-Level C equirement lev or Engli: AS-Level	A-Level C netric test sh A-Level C ents for	30 s and APS 30 2017	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture edivisual consultants and media analysts BA (Music) ² [3 years] Departmental selection: Prospective students must be able to sing or play equivalent to approximately Grade V Practical (Unisa/Royal Schools/Trinity) during an audition. Careers: Arts and culture teachers at schools (Grade R-9) or music centre pre-school learners, music entrepreneurs, song arrangers for school-base for productions, chroeographers for revues and singing games, choir cond playing group music instruments, such as African drums, steel drums and in BMus ⁴ [4 years] Departmental selection is based on a practical singing or instrument perfotest. Required subjects: Music with at least a 4 (50-59%) as Grade 12 subjects: Music with at least a 4 (50-59%) as Grade 12 subjects: Music with at least a 4 (50-59%) as Grade 12 subjects: Music with at least a 4 sonators on to a totation. Studies	statal orga statal orga printers and 5 ucators, ari san instrum and Theo s, group m d instrume uctors, orga marimbas 5 rmance of ct, or Grad ents who h tion will tal	a historia 3 historia 3 historia 3 historia 3 historia 4 historia 3 historia 4 historia 5 historia 7 historia 8 historia 9 Grade 9 usic faci 9 nts, cree 9 canisers 3 historia 15 minu 9 VII Pra 15 minu 9 VII Pra 16 historia
a based o	A NSC/IEB 5 n academ NSC/IEB 5 Mini	HIGCSE 3 ic merit, frikaans HIGCSE 3 imum re schieven frikaans HIGCSE	AS-Level C psychom or Englis AS-Level C cquirement lev or Englis AS-Level C	A-Level C setric test sh A-Level C ents for cel sh A-Level C	30 s and APS 30 2017 APS 30	and animation studios; in-house design for large companies, state and para institutions; public relations and marketing companies; design consultants; private studios, or as freelance designers or illustrators BA (Visual Studies) ³ [3 years] Careers: Art and film critics, visual culture specialists, arts and culture edivisual consultants and media analysts BA (Music) ² [3 years] Departmental selection: Prospective students must be able to sing or play equivalent to approximately Grade V Practical (Unisa/Royal Schools/Trinity) during an attorney of the students o	statal orga statal orga printers and 5 ucators, ari san instrum and Theo s, group m d instrume uctors, orga marimbas 5 rmance of ct, or Grad ents who h tion will tal	a historia 3 historia 3 historia 3 historia 4 historia 3 historia 5 historia 6 historia 7 historia 8 historia 9 historia 15 historia 15 historia 15 historia 16 historia

SPECIALISED PROGRAMMES

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

Careers: Gives students entrance into a variety of careers related to economic or political policy making, from journalism to careers in the diplomatic service

Careers: Archivists, consultants, museum experts (curators, managers), researchers, teachers, tour leaders, tour operators, tour entrepreneurs and heritage resource managers Mathematics

INDUSTRIAL SOCIOLOGY AND LABOUR STUDIES, HERITAGE AND CULTURAL TOURISM

BSocSci (Industrial Sociology and Labour Studies)³ [3 years]

BSocSci (Heritage and Cultural Tourism)³
[3 years]

BSocSci (Philosophy, Politics and Economics) [PPE]³ [3 years]

Afrikaans or English

NSC/IEB HIGCSE AS-Level A-Level

5 3 C C

Afrikaans or English

Afrikaans or English NSC/IEB HIGCSE AS-Level A-Level

NSC/IEB HIGCSE AS-Level A-Level NSC/IEB HIGCSE AS-Level A-Level

3

Engineering, Built Environment and Information Technology

Important information on undergraduate programmes for 2017

- The following persons will 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. Life Orientation is excluded when calculating the APS.

 Grade 11 results are used in the provisional admission of prospective students.

 A valid qualification 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 lecture may not speak Afrikaans or in cases where it is not economically or practically viable. Provisional admission to the four-year programmes 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 often NBT.

 Admission to ENGACE in the School of Engineering will be determined by the results of the NBT.

of the 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.

Programme					Minin	num re	quirem	ents fo	r 2017				
					A	_	nent le	vel					
SCHOOL OF ENGINEERING			or Engli AS-Level	A-Level	NSC/IEB		matics AS-Level	A-Level			AS-Level		APS
BEng (Industrial Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	В*	35
Careers: Industrial of production and s manufacturing, inve financial services, m	services. entory co	Organis ontrol, m	ational r naterials	natters t handling	:hat requ z, supply	uire opti chain m	misation nanagem	include ent, qua	site sele ality man	ection an lagemer	nd layout nt, cost co	of facilit ontrol,	ies,
BEng (Chemical Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	В*	35
Careers: Chemical economic value. The processes. Chemic generation, and the activities, including and development, construction, commendatives.	is is ach al engine e paper air pollu techno-	ieved by eers app and pul ution cor econom	y means oly their p indust ntrol. Lik ic evalua	of phys specialis ries, wat e other ation, eq	ical, the sed knov er and e enginee juipmen	rmal, che wledge i effluent ring disc t and pla	emical, b n the pe treatmer ciplines, ant desig	oiochem troleum nt, as we chemica gn, proc	ical and , food, n ell as en al engine ess cont	mechar ninerals vironme ers are rol and	nical cha process ntal eng involved optimisa	nges an ing, pow ineering in resea	d ver
BEng (Civil Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	B*	35
Careers: Civil engin pipelines, roads, bri They are involved in	eers des idges, tu n financia	sign, bui nnels, ra al model	ld and m ailways, a lling, feas	naintain irports, sibility st	construct power s udies ar	tions su tations, t id the m	ich as tov televisior anagem	wer bloc n towers ent and	ks and s , water v rehabilit	kyscrap vorks an ation of	ers, dam id outfall large as:	s, canals installat set portf	and ions. olios.
BEng (Electrical Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	B*	35
Careers: Electrical energy. There is a t the optimal operat residential areas, o telecommunication	orilliant f ion and ommerc	uture in assure p tial build	renewa perfect a lings, fac	ble ene ind time tories, n	rgy. Elec ly maint nines ar	trical en enance Id indus	gineers of all ele tries. Rai	design, : ectrical ir il transp	supervis nstallatio ort, wate	e the co ons for n er pump	nstructi nunicipa ing, elec	on, over lities, trical gr	see
BEng (Electronic Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	В*	35
Careers: Electronic satellite, television, X-rays, cardiopulmo rehabilitation engin bombs, night vision and mapping), "sma education, environi	radar an onary res eering a , laser sy art" dust.	id radio suscitation nd bioki stems), safety a	frequent on, infrai netics), i transpoi and secu	cy netwo red tomo ntegrate rt (e-tags rity syste	orks), ent ography, od circuit s, speed ems (fac	ertainm electro design, measur e and so	ent and encepha bioengir	medical lograms reering.	(magne (EEG), e military (tic resor lectroca vehicle e	nance im Irdiogran electroni	aging, ns (ECG) cs. smar	, t GPS) botics
BEng (Mechanical Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	В*	35
Careers: Mechanic vehicles, ships, air-cosystems. Areas of s of mechanical, elect engineering, air-cormaintenance engin cooling towers and	condition pecialisa trical, pn nditionin eering a	ners, pet ition incl eumation g and re nd ener	oble bed ude pro and hyd frigeration	nuclear duct des draulic sy on, aero gement	reactors sign and stems), space sv	s, aeropl manufa marine stems a	anes, en cturing (s engineer nd aircra	gines ar such as ring and aft/missi	id turbin design, t naval ar le engine	es, robo esting a chitectu eering, v	ots and b nd impro re, biom rehicle er	iomedic ovement edical ngineerir	al :
BEng (Metallurgical Engineering) ³ [4 years]	5	3	С	С	6	2	В	В*	6	2	В	В*	35
Only presented in I Careers: Metallurg manufacture of me are produced out of Careers include pro	ical engi tal com of the m	ineers u ponents inerals a	nlock th s. They w and whe	e riches ork in p re the m	lants wh netals ar	nere valu e conve	iable mii rted into	nerals a useful i	re recov material:	nonds ar ered fro s – such	nd optim om ore, v as steel	nise the where m or alum	etals ninium
BEng (Computer Engineering) ³ [4 years]	5	3	С	С	6	2	В	B*	6	2	В	B*	35
Careers: Computer technology (ICT) wo wireless sensor net e-commerce, patter hardware, software	works, er 'n recogr	mbedde nition (fa	d softwa ce and s	re, electi neech re	ronics, sr ecognitio	mart cor	itrol syste artificial ir	ems and ntelligen	automa	tion, dat	a securit	у,	icatior 'S,
BEng (Mining Engineering) ³ [4 years]	5	3	С	С	6	2	В	B*	6	2	В	В*	35
Only presented in E Careers: Mining en of ventilation, rock i financial evaluation tunnelling, shaft sin mining marketing a	gineers nechani . mine fe	ics, rock easibility	breaking studies.	z, minera mine en	al resour ivironme	ces), fina ental imo	ancial ev act stud	aluation lies), mir	and ma ing and	nageme drilling o	nt (mine contracti	design, ng (mini	mine ng.
Engineering Augmented Degree Programme (ENGAGE) ³ [5 years]													
				D	5	3	С	С	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.	,	

ogramme					Minin	num re	quirem	ents fo	r 2017				
ogramme					Ac	hieven	nent lev	/el					
HOOL FOR E BUILT	Afi	rikaans	or Engl	ish	Mathematics				F	hysical	Science	е	APS
E BUILT VIRONMENT	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
c chitecture)² years]	5	3	С	С	4	3	D	D	4	3	D	D	27
l only be considection program reers: The BSc Architectural F gistration as a ca	me: Sele	ection in	ıclı ides a	an inten	riew. ne enabl architec chnologis	es gradi tural teo st or a co	uates to chnologi andidate	register sts. The archite	with the qualifica	South ation is t	African (he first :	Council f step to fi	or uture
c (Interior chitecture)² years]	5	3	С	С	4	3	D	D	4	3	D	D	27
I only be consic ection program reers: The BSc titute for the In ure registration	me: Sele (Interior terior De	ection ir Archite esign Pr	icludes a cture) de ofession	an interv egree pr s (IID) as	ogramm candida	ate inter	ior desig	gners. T	his guali	fication	South	African st step t	0
c (Landscape chitecture) ² years]	5	3	С	С	4	3	D	D		Life Sc	raphy o iences		27
,									4	3	D	D	
ection program reers: The BSc uncil for the Lar alification is the	(Landsca ndscape	ape Arch Archite	nitecture ctural Pr	e) degree ofession	e progra n (SACLA	mme er (P) as ca didate la	ables gr ndidate ndscape	raduate: landsca e archite	s to regis pe archi ect.	ster with tectural	the Sou technol	uth Africa ogists. T	an his
c enstruction enagement) ² vears]	5	3	С	С	5	3	С	С	4	or Acco	ounting D	D	30
ection program reers: After con long others, con ogramme, gradu der, including pr linagerial positio	npleting Istructio Jates are Joject ma	on site m e able to anagem	nanagem registe ent, pro	nent or s r as prof perty de	ubcontr fessional velopme	act wor	k. On co	mpletio	n of the	ensuing	two-vea	ir honou	irs ch
c (Real Estate) ² years]	5	3	C	C	5	3	С	C		or Acco	unting		30
yea.5]	,	٦		C	,	,		C	4	3	D	D	30
ection program reers: Apart fro magement, furt operty valuers. (trepreneurs in t	m a futu her stud Career o	lies to o pportur	btain an iities en	honour compas:	s degree s the wh	e in real ole spec	estate c trum of	an lead the pro	to regist perty se	ration a ctor, wh	s protes ether as	sional S	
c (Quantity	_			_	-		_	-		or Acco	unting		
veying)² years]	5	3	С	С	5	3	С	С	4	3	D	D	30
ection program reers: Quantity ents in the build first step towa candidate profe mi-government	surveyir ing and rds regis essional	constru stration quantity	ction inc as quan surveyo	dustry, a tity surv ors. Care	s well as eyors. Th eer oppo	related ne ensui ortunitie	industri ng one- s, apart	ies. The year ho from the	three-ye nours pr ose in th	ar unde ogramn e privati	rgradua ne leads e, goveri	te degre to regis	e is tration
RP – Bachelor Town and gional nning ² years]	5	3	С	С	4	3	D	D					27
mi-government RP – Bachelor Town and gional nning ²	5 ime d region e most to	also exi	c C ers, dev	C C relopme	ty, banki 4 nt practi	ag, mini	D urban n	D nanager	s, real es	state an	alysts ar	nd ector, th	

S r

Research (CSIR) and the Human S organisations, major financial inst	also employed by all three spheres of government, research agencies such as the Council for Scientific and Industrial Research (CSR) and the Human Sciences Research Council (HSRC), non-governmental organisations, 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.											
Programme	Minimum requirements for 2017											
G			F	chieven	nent leve	el						
SCHOOL OF INFORMATION	А	frikaans	or Englis	sh		Mathe	matics	,	APS			
TECHNOLOGY	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level				
BIT (Bachelor of Information Technology) ³ [4 years]	5	3	Ċ	С	5	3	С	С	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 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. Please note: Accreditation is pending to change the structure of this degree programme to a 3 year BIT (information Systems) degree, which may be offered from 2017. For the most recent information please consult the Faculty website.												
BSc (Computer Science) ³ [3 years]	5	3	С	С	5	3	С	С	30 (26–29 admission based on the NBT)			
Should a candidate obtain an APS provided the quotas regarding st Careers: Programmers, systems and researchers.	udent nu	mbers ha	eve not be	een reach	ned.							
BIS (Multimedia) ³ [3 years]	4	3	D	D	5	3	С	С	30 (26–29 admission based on the NBT)			
provided the quotas regarding st Careers: Programmers, web des prepares candidates for positions phone technologies and the web	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 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											
BSc (Information and Knowledge Systems) ³ [3 years]	4	3	D	D	5	3	С	С	30 (26–29 admission based on the NBT)			

V S tl

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Engineering, Built Environment and Information Technology (continued)

Brogrammo	Minimum requirements for 2017									
Programme			A	chieven	nent leve	el				
SCHOOL OF INFORMATION	А	frikaans	or Englis	h		Mathe	matics		APS	
TECHNOLOGY	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level		
BIS (Information Science) ³ [3 years]	4	3	D	D	-				28 (25–27 admission based on the NBT)	
Should a candidate obtain an AP provided the quotas regarding st achievement level of 5 is require Careers: Information and knowle e-commerce specialists (organiss and systems), information broke specialists/analysts/technologists	udent nu d in Mathe edge man e, retrieve rs (act as i	mbers ha ematics. agers (mand add nfoprene	ave not be anage info value to i	een reach ormation nformation ouy and s	and know on), consi	ormatics wledge re ultants or	is selecte esources) n informa	d at first-y , informat tion prod	ear level, an ion or lucts (services	
BIS (Publishing)³ [3 years]	5	3	С	С			-		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 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 (stop of publishing houses, commissioning editors, editors, end production or marketing managers), marketing end promotion, distribution and research, copyright negotiations, copy-editing and proofereding, marketing and promotion, distribution and								such as		
BCom (Informatics) ³	_	2			4	2		0	30	

This programme is administered by the Faculty of Economic and Management Science

Law

Important information on undergraduate programmes for 2017

- 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 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 that institution; and a candidate who is a graduate of another faculty at the University of Pretoria.

 Note: 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 LIB degree.

 International students must obtain a full exemption certificate from Universities South Africa before they will be considered for admission.

 A conditional exemption certificate is not accepted for admission to LLB studies.

 LIB is a full-time four-year programme. Students are not permitted to obtain full-time employment while registered for LLB.

- Only applicants who comply with all the above-mentioned admission requirements will be considered for admission.

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

	Mini	imum re	quireme	nts for 2	017			
Programme	А	Achievement level						
riogramme	A:	Afrikaans or English						
	NSC/IEB	HIGCSE	AS-Level	A-Level				
LLB ³ [4 years]	5	3	С	С	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	Queries relating to LLB applications: Helen van Tonder, Student Administration, Faculty of Law Tel +27 (0)12 420 4265 Fax +27 (0)12 420 2090 Email helen.vantonder@up.ac.za							
BA (Law) ³ [3 years]	Refer to the Faculty of Humanities for requirements and careers.							
For more information on the BA (Law) programme contact: Ms Harriet Klopper Tel +27 (0)12 420 2260 Email harriet.klopper@up.ac.za								
BCom (Law) ³ [3 years]	Refer to t Manager and care	nent Scie	ty of Economics	omic and equireme	ents			
For more information on the BCom (Law) programme contact: Ms Hermie Coetzee +27 (0)12 420 4375 Email hermie.coetzee@up.ac.za								



Theology

Important information on undergraduate programmes for 2017

- The following persons will 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.
- 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

Achievement level						
Afrikaans and English						
evel	A-Level					
)	D	25 (23-24 admission based on the NBT)				
E	Engli Level	English Level A-Level				

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 ocations. If prospective students are interested in ordained ministry, this should also be discussed with their church eadership. This programme is presented in separate groups in only one language (English or Afrikaans). This is the first too to Mibit studies.

BTh – Bachelor of Theology ^a [3 years]	4	3	D	D	25 (23–24 admission based on the NBT)

leadership. This programme is presented in separate groups in o					ieii criarcii
DipTh – Diploma in Theology ^a [3 years]	3	4	Е	Е	22 (20–21 admission

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 Diploma in Theology is intended for candidates who have completed Grade I.2 (or its equivalent), but without the required university admission. This programme is only presented in English.

Education

Important information on undergraduate programmes for 2017

- The following persons will 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. 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/education www.nbt.ac.za

	Minii	num r	equire	mens f	for 2017	
Programme	Acl					
riogramme	Afrikaans or English					
	NSC/IEB	HIGCSE	AS-Level	A-Level		
BEd (Foundation Phase Teaching) – Pre-primary to Grade 3 ^a [4 years]	4	3	D	D	30 (26–29 admission based on the NBT)	
Careers: Teachers and training officials in pre-primary or primary schools						
BEd (Intermediate Phase Teaching) – Grades 4 to 6³ [4 years]	4	3	D	D	30 (26–29 admission based on the NBT)	
Careers: Teachers and training officials in primary schools						

Careers: Teachers and training officials in primary or secondary schools

BEd (Senior Phase and Further Education and Training Teaching) – Grades 7 to 12³ [4 years]

		Tilling Officials in primary or secondary schools												
					Mini	num r	equire	mens f	or 201	7				
Elective packages					Acl	hieven	nent le	vel						
Liective packages	Afr	ikaans	or Eng	lish		Mathe	matics		Р	hysica	l Scienc	:e	APS	
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level		
General package BEd (Senior Phase and Further Education and Training Teaching)	4	3	D	D							-		(26–29 admission based on the NBT)	
Natural Sciences package BEd (Senior Phase and Further Education and Training Teaching)	4	3	D	D	5	3	С	С	5	3	С	С	30 (26–29 admission based on the NBT)	
Economic and Management Sciences package BEd (Senior Phase and Further Education and Training Teaching)	4	3	D	D	4	3	D	D	-		30 (26-29 admission based on the NBT)			

Natural and Agricultural Sciences

Important information on undergraduate programmes for 2017

- The following persons will be considered for admission: a candidate who is in possession of a certificate that is deemed The following persons will be considered for admission: a candidate who is in possession of a certificate that is a seemed 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 monther faculty at the University of Pretoria.

 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.

Programme					Minin	num re	quirem	ents for	r 2017				
riogramme					Ac	hieven	nent lev	/el					
BIOLOGICAL CIENCES	Afi	rikaans	or Engli	ish		Mathe	matics		F	Physical	Science	е	AP.
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
Sc (Biochemistry) ³ 3 years]	5	3	С	C	5	3	C	С	5	3	C	C	30
lareers: Biochemi hemicals, food an lesearch Council (I Vater Research Co nd forensic and p nedical representa nstitutes, pharmac	d pharm MRC), th	naceutica e Agricu nn as wa	al indust Iltural Re ell as ins	ry and vesearch	vaste pr Council	ocessing (ARC), th	g firms) a ne Cance tions th	and rese er Assoc e Counc	earch co iation of all for Sci	uncils, s South A	uch as th Africa and Pesearch	ne Medi d the (CSIR)	cal d earch
Sc (Biological iciences)³	5	3	С	С	5	3	С	С	5	3	С	С	30
his is a generic fir. rogramme to cho ChD in the secon or BSc (Biological ! nd their Environm ey not be selecte lathematics (WTW lease note: The r irade 12 Mathem, ne second semest their first semes	ose, má d semes Sciences nent (MG ed and sl /134) in minimun atics Stu	y apply f ster whe s) modul sW112) a hould th the secon admiss	for this p n places es, repla and Med ley wish ond sem sion req who wish	becom becom dical Ter to conti ester of uiremer	me. Stude available available themati minolog nue with their first for MC v for add	dents whole in the cs (WTV) y (MTL1) one of st year.	ho inten ose prog /134) wi 80), with the Biol s an APS	d on ap gramme th Scien the pro ogical So score of the BV	plying for some plying for some properties of the place o	r admis: gister in Vorld Vie nat these program d a minir	sion to N the first ews (FIL e studen mes, mu mum of ecome a	MBChB of semes 155), Peats, shou ust com	or ter ople ild plete
Sc Biotechnology) ³ Byears]	5	3	С	С	5	3	С	С	5	3	С	С	30
areers: Graduate lant or microbe-b dditional qualifica ales and marketin lease note that th iotechnologist car	ased ted tions su ig, projec ie level c	thnologi ch as lav ct mana of trainin	es to de w, they w gement, g/qualifi	velop pi vill be ed compu	roducts quipped ter prog	and sen for succ rammin	vices. If s ess in ca g (natura	tudents areers si al comp	combin uch as p utation)	e biotec atent la and scie	hnology w, pharn	with naceution	al
Sc (Ecology) ³ 3 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
areers: Environm direct use of nati	nentally b ural resc	pased st jurces, a	atutory nd acad	and priv emic an	ate cons d trainir	servation ng institu	n organi Itions	sations,	organisa	ations in	volved ir	n the dir	ect o
Sc (Zoology)³ B years]	5	3	С	С	5	3	С	С	5	3	С	С	30
areers: Graduate rospects. They col gencies, medical a -related fields and nodern research, of aining activities, all ork.	uld be ei ind veter	mployed inary re	l at natui search ir	re conse	ervancies ns. bioch	s, environ nemical a	nmental and biote	consulta	ancies, c pv indust	onserva ries, edi	tion plan Icational	ining Linstitut	ions, ed in time lated
Sc (Entomology) ³ B years]	5	3	С	С	5	3	С	С	5	3	С	С	30
areers: Employm nd biotechnology nuseums, education ntomology are pa	industrie onal and	es, medic researd	cal and v h institul	eterinar ions, IT-	y resear related f	ch, pest ields an	manage d the co	ment, q rporate :	uarantin sector. G	e and in Graduate	spection s with ex	service xpertise	s, in
Sc (Genetics) ³ 3 years] Sc (Human enetics) ³ 3 years]	5	3	С	C	5	3	С	C	5	3	С	С	30
fareers: Graduate ytogeneticists, bio- ioinformaticists ar n bioscience-relate quipped for succe rogramming (natu nportant role in di	ed indust ess in car iral com	ries. If st eers suc outation	tudents th as pat) and sci	combine ent law, ence jou	e genetic pharma urnalism	s with a ceutical . Please	sales an note tha	d qualific d marke it the lev	ations su eting, pro el of trai	uch as Ia oject mai ning/qua	geneticis tic couns stitutions w, they w nagemer alification	ts, sellors, s and will be nt, comp n plays a	outer
Sc (Human hysiology)³ 3 years]													
SSc (Human Physiology, Genetics and Psychology) ³	5	3	С	С	5	3	С	С	5	3	С	С	31

[3 years] 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).

BSc (Medical

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 inclustry. Other careers that can be considered are in the syrt 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 SEC (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 sheries section choice and who meet the minimum entrance requirements will be put on a waiting list and will be considered in January of the first vear of struky. If alcree sare available.

Community of the control of the cont				6				11				C	
BSc (Microbiology) ³ [3 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
first year of study, if	places a	are avail	able.										

reers: Microbiologists can pursue a variety of careers, ranging from practical applications to basic research. Career ortunities are available in the food, dairy, beer, wine and baker's yeast industries, in the fermentation industry, and nines with regard to corrosion control. Graduates can also follow careers as medical or veterinary micrologists, as earchers at organisations such as the CSIR, the MRC or the ARC, or as lecturers and researchers at various academic

Programme					Minin	num re	quireme	ents for	2017				
riogiannie					Ac	hieven	nent lev	rel					
BIOLOGICAL	Afr	rikaans	or Engli	ish		Mathe	matics		F	hysical	Science	9	APS
SCIENCES	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 [3 years]	5	3	С	С	5	3	С	С	5	3	С	С	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.

Candidates who do may be considered a period of four yea	for admi	ission to	the BSc	 Extend 	ded prog	require gramme	ments fo below. T	r the Bio he BSc –	logical S Extende	ciences ed progr	program amme ta	mes abo ikes plac	ve, e over
BSc – Extended programme for the Biological and Agricultural Sciences	4	3	D	D	4	3	D	D	4	3	D	D	24

Please note: The BSc (Plant Science), BScAgric (Plant Pathology) and BScAgric (Applied Plant and Soil Sciences) will soon resort under one School. The curriculum may change. For the most recent information, please consult our website at

Programme Minimum requirements for 2017													
Achievement level													
PHYSICAL	Afr	rikaans	or Engli	ish		Mathe	matics		F	hysical	Science	9	APS
SCIENCES	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
BSc (Chemistry) ³ [3 years]	5	3	С	С	5	3	С	С	5	3	С	С	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 politic 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, phranaceutics and cosmetics, geology, mining and law enforcement. These include the well-known professions of synthetic chemists, materials scientists, chemical pathologists, forensic chemists, analytical chemists, duy analysts, patent lawyers, environmental chemists, geochemists, food chemists, polymer chemists and soil chemists.

BSc (Physics)^a 5 3 C C 5 3 C C 5 3 C C

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 5 3 C C 5 3 C C 5 3 C C

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 cosystems 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, geography, geographics (GIS), remote sensing environmental analysis and environmental auditing. Graduates can also pursue academic careers.

C C 5 3 C 5

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, rransport planning, tourism, market research, crime prevention, vehicle tracking, cartography, GIS technology, environmental management. Graduets can apply for professional registration as GIS technologists with the South African Council for Professional and Technical Surveyors (PLATO).

C(Geology)³ 5 3 C C 5 3 C C 5 3 C C

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, entrepreneural films (fjuniesr), interesting careers are also offered by the Cound films of Secsioences, the CSIR the Cound 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 up the interaction between human activities and the geological environment, such as the pollution of soil and groundwater. They interaction between human activities and the geological environment, such as the pollution of soil and groundwater They integrate 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 evaluates uitable construction materials. The task of the hydro geologist is to look for groundwater and monitor the responsible exploitation of that water.

C C 5 3 C C 5 3

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 agras:

- 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.

 Weather forecasters: It is the duty of the forecaster to analyse data and predict the weather by using models that action on superconducts. Weather forecaster is analyse data and predict the weather by using models forecasts to obtain the control of the control
- and other organisations.

 Consultants: Some meteorologists who work as consultants in the private sector and at universities provide specialised research services.

 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.

3 5 3 [3 years]

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

(Environmental and Engineering

Careers: Geologists, mineralogists, extraction metallurgists, economic geologists, geochemists, environmental and engineering geologists, geohydrologists, laboratory specialists, consultants

Candidates who do not comply with the minimum admission requirements for the Physical Sciences programmes above, may be considered for admission to the BSc – Extended programme below. The BSc – Extended programme takes place over a period of four years instead of the normal three years.

BSc – Extended programme for the Physical Sciences	4	3	D	D	4	3	D	D	4	3	D	D	26
Please note: BSc (Plant Sci	ionco) R	Scagric	(Plant P	atholog	A and R	ScAgric (Annlied	Plant an	d Soil S	rioncos)	will soor	h

record under one Chair Sciences, pooragin; triain Patriology, and pooragin; (Applied Plant and Soil Sciences) will soon resort under one School. The curriculum may change. For the most recent information, please consult our website at

Programme							quirem		r 2017				
					Ac		nent lev	/el					
AGRICULTURAL AND			or Engli				matics				Science		APS
BSc (Food Management) ³ [4 years]	NSC/IEB	3	AS-Level	A-Level	NSC/IEB	3	C C	C C	5	3	AS-Level	C C	
Careers: Food serventrepreneurs, con	rice man	agers, q	uality cor	ntrollers	, teacher	rs, resea	rchers, f	ood pro	duct dev	velopers	, market	ers,	
BSc (Food	isultai its	, 1000 jo	uirialists	, teacrie	is and ti	alliels							
Science) ³ [3 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
Careers: Food scie and safety assurant specialists, safety at scientists, food bio- work environment in retail, government in manufacture and sign or that have second	ce mana uditors, p scientist of food s institutio upply ma	gers, foo product s (brew scientists ins and r aterials (od chem and pro masters include research packagir	ists, foor cess dev flavouri s labora organis ng and fo	d microb velopme sts) in th tories, fo ations. F ood addi	nt mana nt mana ne food, ood prod ood scie tives, su	s and bio gers, teo food agr duction s entists al	technol chnical s o proce sites and so work	ogists, p ales and ssing an I busines in indus	ackaging marketi d related ss premi: tries and	g and she ng advis d industr ses, trair d compa	elf life ors, sens ies. The ning area nies that	is,
BSc (Nutrition) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
Students will be abl Nutrition. Careers: The need meet basic nutrition opportunities inclue international organ (WHO)) or research	for grad	luates w	ith traini p plays a	ng in nu kev role	trition is	driven b	y the wo	orldwide aintena	recogni	tion that	food do	es not c	only reer nents,
BScAgric (Food Science and Technology) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	
Careers: Food scie and safety assuran specialists, safety al scientists and food work environment retail, government i manufacture and si or that have second	uditors, p bio-scier of food s institutio upply ma	ntists (bi scientists ins and r aterials (and pro ew mas include esearch packagir	cess dev ters, flav s labora organis ng and fo	elopmei ourists) tories, fo ations. F ood addi	nt mana in the fo ood proc ood scie tives, su	igers, ted	:hnical s Lagro-ni	ales and ocessio	marketi and re	ng advis lated ind	ors, sens	sory The is, i dustry
BScAgric (Agricultural Economics and Agribusiness Management) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	
Careers: Agricultur understanding con- agricultural econon the sustainable use financial markets at agricultural econon farmers and input sithat there is enough advising clients and a vital part in reseal interesting people. America, Australia a understand market culture, in nature, b people, but also use	nists are of scarce nd work nists wor suppliers h food fo I manage rch and They tra and Euro s for proput also ii	involved the resou at the Jo k for ba s. Some or all the ers how developing vel both ope. The oducts. In busine	d in envir rces suc- phannesh nks and agricultu people to mana ment in locally a y do this hereforess and r	onment h as wat burg Sto in financ iral econ in the co ige finan the agric and to m to buy t e an agri manager	al mana er and a ck Excha ce, at foc iomists v iountry, w ice, risk a cultural s ost othe he best icultural ment. An	gement irable lar ange (JSE od proce vork for while oth and com ector. A r parts of inputs to econom agricult	and ass nd. Some ssors su the gove er agricu modity r gricultur of the wo o produce ist is sor cural eco	e agricul dton or a ich as ba ernment iltural ec markets al econd orld, sucl te food a mebody nomist i	wernmentural eccept Wall Shakers and commission of the commission	nt and bonomists treet in New Present in New Presen	usinesses are tracker York York York York York York York Yor	es to ensiders on a come others a co ensure ercial ba also play eet many a, South dentify a ple and t	ure global other dvise nks, / nd their
BScAgric (Animal Science and Pasture Science) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	
Careers: Animal so focused on the app consumer satisfact humans. There are the public sector at in these sectors, ramanagers and polithe South African C	ion. It is numero	a field c ous care	of science er oppo	e, subje rtunities	ct to the s for anii	most re mal and	wildlife	search a scientist	ind need s in rese	is of bot earch, co	h anima mmerci n differe	Is and al farmir	ng,
BScAgric (Plant Pathology) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
Careers: Seed cult	ivators, f	farmers,	researc	hers, le	cturers,	consulta	ints						
BScAgric (Applied Plant and Soil Sciences) ³ [4 years]	5	3	С	С	5	3	С	С	5	3	С	С	30
Careers: Education private institutions Public sector: Tourism, Depa the CSIR, provimunicipalities, Private sector planning and r Extension set agriculture and	The Agri ortment of ncial agr South A Compa nanagen rvices ir	icultural of Agricu riculture frican Na anies inv nent, nu nvolving	Researce alture, For and nat ational P volved in rseries, v	h Counce prestry a ure constarks, nat seed, fe vegetable	til (ARC), I nd Fishe servation tional far ertilizer a e, fruit a ansfer:	Departn ries, De depart ming ar nd plan nd orna Nature	nent of V partmen ments, t nd food p t protect mental c conserve	Vater an it of Min he Sout producti ion rese cut flowe ation, no	d Enviro eral Res h Africar on agen earch and er produ ational a	nmental ources, I Nationa cies, etc. d develo ction, irri	Affairs, I Departm al Biodive pment, e igation, e incial de	Department of E ersity Inservironnetc. epartme	ent of nergy stitute nenta nts of

analogement, private companies servicing field crops, vegetables, medicinal and aromatic plants, fruit, ornamental and

cut flower production, etc. Entrepreneural: Consultants in crop, pasture, wegetable, 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

Candidates who do not comply with the minimum admission requirements for the Agricultural and Food Sciences programmes above, may be considered for admission to the BSc – Extended programme. The BSc – Extended programme will take one year longer to complete.

Please note: BSc (Plant Science), BScAgric (Plant Pathology) and BScAgric (Applied Plant and Soil Sciences) will soon resort under one School. The curriculum may change. For the most recent information, please consult our website at www.up.ac.za/nas.

Programme			Minir	num re	quireme	nts for 2	017		
riogramme			А	chieven	nent lev	el			
CONSUMER	Af	frikaans	or Engli	sh		Mather	natics		APS
SCIENCES	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
BConsumer Science (Clothing: Retail Management) ³ [4 years]	5	3	С	С	4	3	D	D	28
Careers: Retail management: Floor or store managers, visual merchandisers, buyers in the fashion industry, fashion advertising, fashion journalists, textile technologists (quality controllers) and entrepreneurs									
BConsumer Science (Foods: Retail Management) ³ [4 years]	5	3	С	С	4	3	D	D	28
Careers: Managers in restaurants, catering, for journalists, consumer consultants, entreprending	ood servi eurs, and	ice, mark I marketi	eting or : ng or sal	sales ma es mana	nagers, e gers	ducators	and trair	ners,	
BConsumer Science (Hospitality Management) ³ [4 years]	5	3	С	С	4	3	D	D	28
Careers: Hotel and restaurant managers, hot marketing, sales or catering managers, educa									

)rogrammo			М	inimum r	equireme	nts for 20	17			l
Programme				Achieven	nent level					
MATHEMATICAL		Afrikaans	or English			Mathe	matics		APS	
ATHEMATICAL CIENCES	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level		
SSc (Actuarial and Financial Mathematics) ³ 3 vears1	5	3	С	С	7	1	А	А	34	

Careers: Actuarial and financial mathematics is a popular field, with career opportunities in the business market and at investment institutions like banks and insurance companies. The skills of mathematicians are essential in portfolio management and the modelling of financial risk. This programme prepares students for professional careers as actuaries or financial engineers. For actuaries or actuarial technicians, activities include long-term capital projects, designing the benefits of medical schemes, the management of pension funds, the determination of contributions and financial management on a sound long-term basis, the evaluation of investments in shares, property and other transactions, and the determination of the premiums and reserves for outstanding claims of insurers. Financial engineers can be employed by bank and financial institutions, brokerage firms and investment institutions. The mathematical skills of financial engineers are essential in portfolio and risk management. Activities include asset management (trading in bonds, futures and derivative instruments such as options), designing new financial products, and devising strategies to control credit risk

BSc (Mathematics) ³ [3 years]									
BSc (Applied Mathematics)³ [3 years]	5	3	С	С	6	2	В	В	32

Careers: Graduates in mathematics and applied mathematics are employed by research institutions, educational bodies (universities and schools), the public sector (government, medical institutions, etc.) and the private sector (engineering companies, financial institutions, the computer industry, etc). These graduates' training in abstract, analytical and computational thinking provides them with the background to easily adjust to changing circumstances in the professional environment and to construct mathematical models of natural, technological and financial phenomena. Mathematicians and applied mathematicians apply, evaluate and adapt existing problem solving techniques or develop new techniques to solve problems.

BSc (Mathematical Statistics) ³ [3 years]	5	3	С	С	6	2	В	В	32
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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.

Industry: Statisticians are increasingly employed in industries such as mining and production and government corporations, for example, Eskom, Sasol, AECI, 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.

another virialy important industry where sophisticated statistical techniques are used to freet the growing dentifier for food and services.

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. 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.

Candidates who do not comply with the minimum admission requirements for the Mathematical Sciences programmes above, may be considered for admission to the BSc – Extended programme below. The BSc – Extended programme takes place over a period of four years instead of the normal three years.

BSc - Extended programme for 4 3 D D 5 3 C C Mathematical Sciences	26
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BSc (Actuarial and Financial Mathematics):

Admissions from the BSc – Extended programmes to the BSc (Actuarial and Financial Mathematics) programmes 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 WTW143 and WTW153.

Veterinary Science

Important information on undergraduate programmes for 2017

- All programmes in this Faculty include selection procedures, which are based on academic merit, the results of the National Benchmark Test (NB) and a Value-added Questionnaire, among others. Applicants, who indicate PSVsC (Bachelor of Veterinary Science) or the Diploma in Veterinary Nursing as their first choice, will be given preference. In order to retain provisional admission candidates should comply with the minimum subject and Admission Point Score (APS) requirements based on their final school-year examination results. The following persons will 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 enorsement; 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. Life Orientation is excluded when calculating the APS.

University of Pretoria website National Benchmark Test website www.nbt.ac.za

Programme						Mi	nimur	n req	uirem	ents	for 20	17					
		Achievement level															
		Eng	glish		Mathematics				Life Sciences				Physical Science				APS
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	ASLevel	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
BVSc (Bachelor of Veterinary Science) ¹ [6 years]	5	3	С	С	5	3	С	С		-			5	3	С	С	32

Diploma in Veterinary Nursing ¹ [2 years]	4	3	D	D	4	3	D	D	4	3	D	D	4	3	D	D	24
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The NBT and the Value-added Questionnaire are compulsory components of the selection process.

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, ries and farming operations.

ase note: The University plans to offer a three-year Veterinary Nursing degree, which may be introduced in 2017 nding CHE accreditation).



