

# 2021

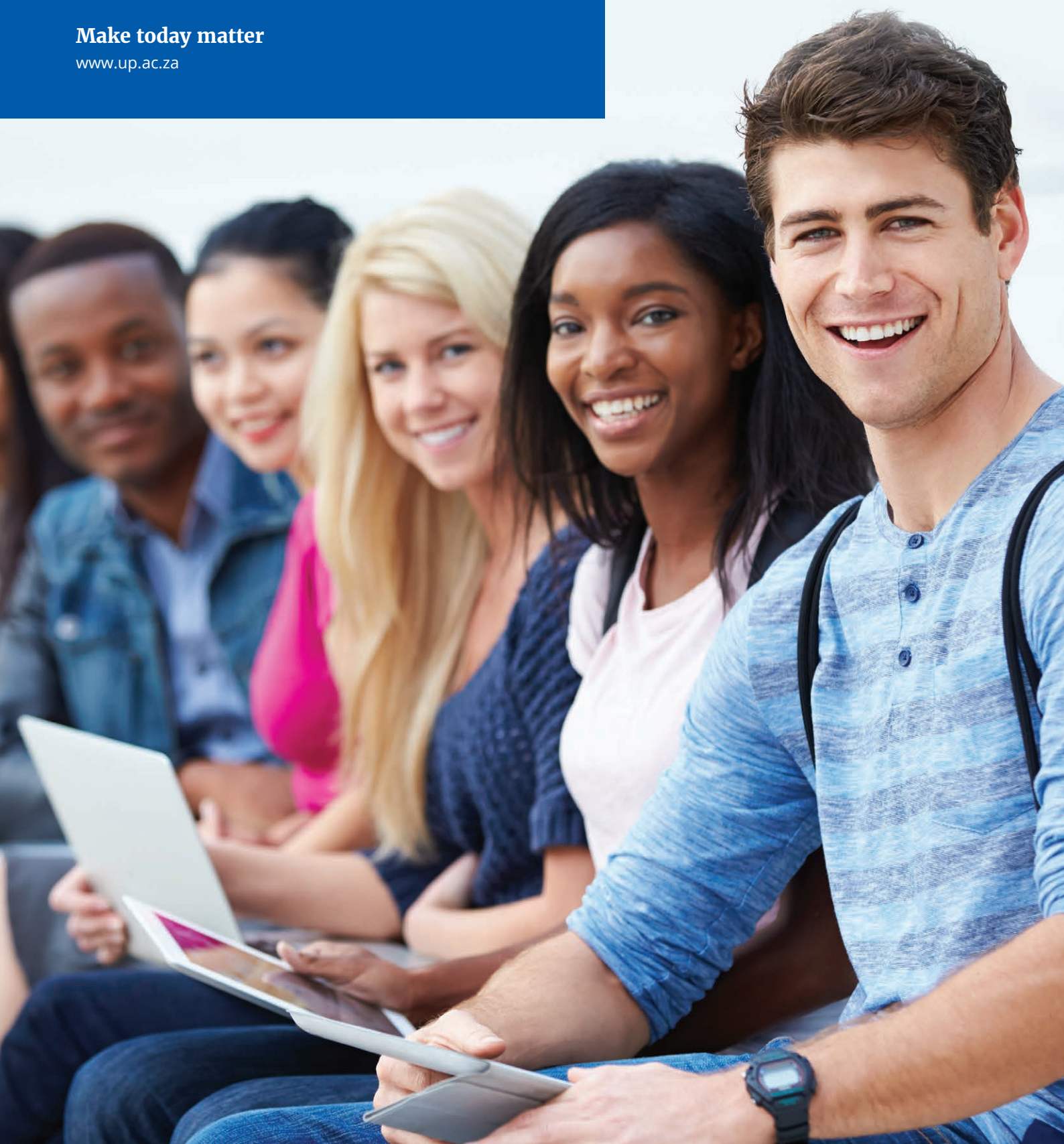
Undergraduate programme  
information

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UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA



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## The University of Pretoria (UP) is a diverse and dynamic university community comprising students from all over the world.

It has nine faculties (Education; Humanities; Economic and Management Sciences; Engineering, Built Environment and Information Technology; Law; Natural and Agricultural Sciences; Theology and Religion; Veterinary Science and Health Sciences) and the Gordon Institute of Business Science (GIBS).

The University of Pretoria's degrees are internationally recognised and are structured similarly to those of the world's best universities. A number of support departments at the University help ensure that all staff and student activities, spread over six campuses, are executed with the necessary quality, relevance, diversity and sustainability.

### University of Pretoria contact information

Location	Postal address	Student Service Centre
University of Pretoria cnr Lynnwood Road and Roper Street Hatfield South Africa	University of Pretoria Private Bag X20 Hatfield 0028 South Africa	<b>Tel</b> +27 (0)12 420 3111 <b>Email</b> ssc@up.ac.za <b>Website</b> www.up.ac.za

### University of Pretoria banking details

University bank accounts		
Account holder	University of Pretoria	University of Pretoria
Bank	ABSA	Standard Bank
Branch	Hatfield (Branch code: 632005)	Hatfield (Branch code: 011545)
Swift code	ABSAZAJCPT	SBZAZAJJ
Account number	214 000 0038	012 602 604
Deposit reference	Initials and surname	Initials and surname

### Minimum admission requirements

To be able to register, candidates must comply with the minimum requirements for degree studies, as well as with the minimum requirements for the relevant programme. The calculation of an Admission Point Score (APS) is based on a candidate's achievement in any SIX recognised NSC 20-credit subjects 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.

### 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%

### Citizens from countries other than South Africa

Before these citizens are allowed to register, they need to submit proof of their legal status in South Africa, as well as proof of adequate medical aid cover. Documents required must be emailed to [isd@up.ac.za](mailto:isd@up.ac.za). Students must clearly state their student number on each page.

#### Universities South Africa (USAf)

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

#### Contact information

<b>Tel</b>	+27 (0)10 591 4401/2
<b>Fax</b>	+27 (0)86 677 7744 (SA Only)
	+27 (0)12 481 2992 (International Only)
<b>Email</b>	<a href="mailto:exemptions@usaf.ac.za">exemptions@usaf.ac.za</a>
<b>Website</b>	<a href="http://he-enrol.ac.za">http://he-enrol.ac.za</a> or <a href="https://mb.usaf.ac.za">https://mb.usaf.ac.za</a>
<b>Location</b>	1st floor, Block D and E, Hadefields Office Park 1267 Pretorius Street, Hatfield 0028, Pretoria
<b>Postal address</b>	PO Box 27392, Sunnyside, Pretoria 0132

Published by the Department of Enrolment and Student Administration in December 2019. Comments and queries can be directed to [ssc@up.ac.za](mailto:ssc@up.ac.za) or Tel +27 (0)12 420 3111.

**Disclaimer:** This publication contains information about regulations, policies, tuition fees, curricula and programmes of the University applicable at the time of printing. Amendments to, or updating of the information in this publication may be effected from time to time without prior notification. The accuracy, correctness, or validity of the information contained in this publication is therefore not guaranteed by the University at any given time and is always subject to verification. The user is kindly requested to, at all times, verify the correctness of the published information with the University. Failure to do so will not give rise to any claim or action of any nature against the University by any party whatsoever.

## Download the JT APP at [juniortukkieapp.co.za](http://juniortukkieapp.co.za)

### Apply for JT membership via the JT App:

On the JT App, choose 'JuniorTukkie', then 'Become a JuniorTukkie'

<b>JT Tel</b>	+27 (0)12 420 6606/5102
<b>JT Email</b>	<a href="mailto:juniortukkie@up.ac.za">juniortukkie@up.ac.za</a>
<b>JT Website</b>	<a href="http://www.up.ac.za/juniortukkie">www.up.ac.za/juniortukkie</a>
<b>JT App</b>	<a href="http://www.up.ac.za/juniortukkie">www.up.ac.za/juniortukkie</a> > 'JT APP'





## Special package offer to new first-year academic achievers

(Amounts indicated in the table below are for 2020 and may be adjusted for 2021)

ADMISSION (based on the examination results with which you apply)		RESIDENCE PLACEMENT (based on the examination results with which you apply)		FLY@UP ASSIST FIRST-YEAR STUDENTS (Achievement awards are based on the final school-year examination results)			
Qualifying academic average percentage	Admission to study	Qualifying academic average percentage	Residence placement	Qualifying academic average percentage	FACULTIES		
					Natural and Agricultural Sciences AND Engineering, Built Environment and Information Technology	Health Sciences AND Veterinary Science	Other faculties
75%-100%	<b>Guaranteed</b> admission to your first- or second-choice non-selection programme (not applicable to selection programmes) if your application is received no later than 1 May of the year preceding commencement of studies.	85%-100%	<b>Guaranteed</b> placement in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.	75%-79.99%	R6 500	-	-
				80%-84.99%	R16 000	R6 500	R16 000
				85%-89.99%	R25 000	R16 000	R25 000
				90%-100%	R40 000	R25 000	R40 000

**Note:** The University of Pretoria reserves the right to amend award values without prior notice.

### Conditions

- Fly@UP Assist 1st Year awards are based on the average percentage obtained (not on the number of distinctions).
- Undergraduate achievement awards are made automatically to newly registered undergraduate students who meet the award conditions. Students do not apply for these awards.
- First-year students who register for studies at UP directly after Grade 12 (final school-year) or who took a gap year(s) after their final school-year, who meet the award conditions, will be considered.
- Students who have previously registered at a tertiary educational institution prior to registration at UP will not be considered for Fly@UP Assist 1st Year award. Students who registered at UP in previous years, are also not considered.
- Qualifying students must be South African citizens or permanent residents in South Africa, or be citizens of a SADC country.

- The average percentage for award purposes is the average of the actual percentages obtained for the six (6) best NSC/IEB/Cambridge subjects taken, excluding Life Orientation. This is for subjects taken in the final school-year end exams, based on the calculations done by the University of Pretoria.
- The average percentage is not rounded off.
- Certain subjects are EXCLUDED in the calculation of average percentages:
  - Life Orientation
  - Mathematics Paper 3
  - Additional Mathematics
  - Practical Music Grade 4 and 5 (Note: Practical Music Grades 6, 7 and 8 are considered for inclusion in the calculation of the average percentage – if your music report for this subject is not part of your NSC report, please submit your official music report to your faculty's student administration offices, before 28 January for consideration.)

- The awards are finalised on the basis of the final marks that the University receives from the Department of Basic Education for the final school-year. Results obtained for papers that have been re-marked are not taken into account for award purposes.
- Awards are fully repayable if students discontinue or terminate their studies in the relevant study programme for whatever reason during the year in which the award is made.
- If students change their study programmes during the year in which the award is made, the award value allocated for the study programme enrolled for initially will remain unchanged. That is to say, the award will not be cancelled or adjusted upward/downward to align it with consecutive study programmes enrolled for.

**Be sure to read about all the various funding opportunities on [www.up.ac.za/fees-and-funding](http://www.up.ac.za/fees-and-funding).**

### Closing dates

The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met.

### Helpful websites/links

- [www.up.ac.za/programmes](http://www.up.ac.za/programmes)
- [www.up.ac.za/fees-and-funding](http://www.up.ac.za/fees-and-funding)
- [www.up.ac.za/accommodation](http://www.up.ac.za/accommodation)
- [www.gostudy.mobi](http://www.gostudy.mobi)
- [www.up.ac.za/sport](http://www.up.ac.za/sport)
- [www.nsfas.org.za](http://www.nsfas.org.za)
- [www.nbt.ac.za](http://www.nbt.ac.za)
- [www.up.ac.za/juniortukkie](http://www.up.ac.za/juniortukkie)
- Download the 'UP mobile app' from the Google Play Store or Apple iStore
- UP Virtual campus  
– [www.virtualcampus.up.ac.za](http://www.virtualcampus.up.ac.za)

## 2. Online application process for studies in 2021

Please read through all the steps below to determine which actions are relevant for your application to study at the University of Pretoria in 2021. Citizens from countries other than South Africa, should also take note of the steps below with specific reference to the important information on page 1.

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### Choose a programme

Read about all undergraduate programmes offered at UP from page 5 in this brochure.

- It is important to indicate a first- as well as a second-choice programme on your Online Application. The Application only makes provision for two study choices. If you want to add a third choice, or if you want to change your study choice after you have already submitted your online application, please forward your request to [ssc@up.ac.za](mailto:ssc@up.ac.za).
- Your second-choice programme will automatically be considered should your application for your first-choice programme be unsuccessful or if your first choice is a selection programme.
- Ensure that your first- and second-choice programmes meet the minimum admission requirements as well as the faculty's selection guidelines.
- Please note that certain programmes will not be considered if indicated as your second choice. Refer to the faculty tables from page 5.
- For study advice, make an appointment with a Student Advisor via Ms Carol Bosch at +27 (0)12 420 5144 or [carol.bosch@up.ac.za](mailto:carol.bosch@up.ac.za).

More information is available at [www.up.ac.za/programmes](http://www.up.ac.za/programmes)

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### Tuition and residence fees

For more information on tuition and residence fees, go to [www.up.ac.za/fees-and-funding](http://www.up.ac.za/fees-and-funding).

- Fee quotation:** Please go to <https://www.up.ac.za/student-fees/article/2735970/quotations> to get an estimation of the study fees for the programme/s that you are interested in.
- Family discount:** When two or more dependent children of the same family are registered simultaneously at the University of Pretoria, they may apply for a rebate on tuition fees.
- The 2.5% discount:** If the student account is paid in full (ie 100%) by 30 April, a 2.5% discount is applicable.
- Initial payment:** This payment is not an additional amount payable, but the first payment towards the tuition fees.
- Residence reservation fee:** This fee will be payable within 30 days after placement in a UP residence. For residence room fees, go to [www.up.ac.za/accommodation](http://www.up.ac.za/accommodation).
- Fees paid by bursaries:** Students must submit written proof from the sponsor of the bursary awarded to them prior to registration, otherwise they are responsible for the initial payment. The final decision regarding the acceptance of a bursary letter rests with the University.
- How and where to pay:** Cashiers are available on all our campuses from Mondays to Fridays from 08:00 to 16:00. For EFT and credit card payments, please allow at least 5 working days for payment to reflect on your student account.
- UP banking details:** See page 1.

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### Apply to study at UP

Apply ONLINE at [www.up.ac.za/apply](http://www.up.ac.za/apply) from 1 March in the year preceding studies.

- The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met.
- Before you start to complete the Online Application, please watch an online application demonstration on the UP YouTube channel.
  - Ensure that the email address that you indicate on your Online Application is correct as your temporary password and T-number will be sent to this email address.
  - Ensure that you apply before the closing dates of both your first- and second-choice programmes. The closing dates are indicated in the faculty tables; see page 5 in this brochure or go to [www.up.ac.za/online-application](http://www.up.ac.za/online-application) > Closing dates.
  - You will receive your student number within 10 working days after you have submitted your Online Application.
  - On receipt of your student number, you will be able to track your application status on the UP Student Portal. Refer to Step 7 for instructions on how to gain access to your Student Portal.

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### Apply for residence placement

The Online Application has a section to be completed if you are interested in residence placement.

- Residence placement is based on academic merit and date of application.
- The demand for accommodation by far exceeds the available spaces. Apply as soon as possible from 1 March.
- Preference is given to students with an academic average of 75% and above.
- To qualify for guaranteed placement in a UP residence, the prospective student must:
  - apply before 1 May in the year preceding studies;
  - have obtained a minimum average of 85% in the examination with which the student applies to study at UP; and
  - be conditionally admitted to a programme.

More information is available at [www.up.ac.za/accommodation](http://www.up.ac.za/accommodation).

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### Apply for bursaries and loans

Visit the relevant website for closing dates.

#### UP bursaries and loans

- Applications must be submitted via the UP Student Portal or [www.up.ac.za/fees-and-funding](http://www.up.ac.za/fees-and-funding). No late applications will be accepted.
- UP sports bursaries: [www.up.ac.za/sport](http://www.up.ac.za/sport)

#### National Student Financial Aid Scheme (NSFAS)

- For applications and comprehensive information, visit [www.nsfas.org.za](http://www.nsfas.org.za).

#### Fundi (previously known as Eduloan)

As a registered credit provider, Fundi covers a wide range of student-related necessities such as books, accessories, laptops, university and private accommodation, as well as study tuition with a fixed monthly instalment. Anyone can apply for a loan (students, parents or guardians), provided that the applicant is in full-time employment or has a registered business. For more information, visit [www.fundi.co.za](http://www.fundi.co.za).

#### Other bursary options

- Bursaries according to field of study: [www.gostudy.mobi](http://www.gostudy.mobi)
- The Bursary Register: Contact [rlevin@mweb.co.za](mailto:rlevin@mweb.co.za) or +27 (0)11 672 6559

## 2. Online application process for studies in 2021

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### National Benchmark Test (NBT)

The National Benchmark Test is not compulsory for all programmes.

- Register to write the NBT at [www.nbt.ac.za](http://www.nbt.ac.za).
- The NBT results support, but do not replace or duplicate final school examination results.
- It is indicated at the programmes in the faculty tables from page 5 whether or not the NBT is required.
- The tests are confidential.
- There are no previous test papers available.
- The NBT consists of two components:
  - (1) AQL: Academic Literacy and Quantitative Literacy (which are combined). Quantitative Literacy is similar to Mathematical Literacy. The AQL test has also been translated into Braille.
  - (2) MAT: Mathematics.
- A complete schedule with all the test centres can be found at [www.nbt.ac.za](http://www.nbt.ac.za).

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### How to access the UP Student Portal

Go to [www.up.ac.za](http://www.up.ac.za) and click on My UP Login.

**Note:** A T-number is a temporary number and NOT a student number. This T-number is issued to the applicant at the beginning of the Online Application process. An applicant will receive a UP student number within 10 working days after his/her application has been submitted successfully.

Applicants will only be able to access the UP Student Portal once they have received a UP student number, eg u18123456.

Click on the "New user" link below the Login tab.

- Type in your Username (u followed by your student number) and your National ID or Passport number. Click the "Proceed" button.
- Set up your new password and confirm the password in the second block. Click the "Proceed" button.

- A message is displayed to inform the user that the password was set successfully. Click the "OK" button.
- A list of challenge questions appears and you may select to answer any 3 of these.
- Select any three-challenge questions and then click on the "Submit" button.
- Enter your answer on each challenge question. Click the "Save" button.
- A message will be displayed to inform you that your challenge questions have been set up. Click the "OK" button.
- You are now ready to access the UP Student Portal.
- Sign in again with your username and password.

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### Veterinary Science Value-added Form (VSVAF) and Veterinary Nurse Value-added Form (VNVAF)

- These documents will be made available on the UP Student Portal, only for prospective students in the Faculty of Veterinary Science, who meet the minimum admission requirements. Visit the UP Student Portal regularly for notices in this regard.
- Be sure to complete and submit the relevant document before the due date. The Faculty will communicate the due date to applicants on the UP Student Portal under "Communications".
- Enquiries may be directed to [ssc@up.ac.za](mailto:ssc@up.ac.za).

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### UP Student Contract

Before a student will be able to register, a contract needs to be concluded between the student and the University of Pretoria.

- Students must access the contract online on the UP Student Portal at [www.up.ac.za](http://www.up.ac.za) > My UP Login.
- The contract should be completed online, and then printed and signed.
- The completed and signed original contract must be handed in at the Student Service Centre or posted to the Student Service Centre, University of Pretoria, Private Bag X20, Hatfield, 0028. The University of Pretoria does not accept faxed, scanned or emailed contracts.
- Watch the video on "How to complete the UP Student Contract" on the UP YouTube channel.

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### Orientation for new first-year students

- The Orientation Programme will be available on [www.up.ac.za/orientation](http://www.up.ac.za/orientation) by the end of December 2020.
- The dates for online registration of first-year students will be communicated to students by the end of December 2020.

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### Special package offer to academic achievers

The special package offer to new first-year students is based on the academic average percentage obtained in the final school-year end examination. (See page 2 for further information).

- The special package offer includes:
    - Guaranteed achievement awards (FLY@UP Assist First-year students) to students who qualify.
    - Guaranteed admission to first- or second-choice non-selection programmes for prospective students with an academic average percentage of between 75% and 100%, if the application is received no later than 1 May of the year preceding commencement of studies.
    - Guaranteed placement in a UP residence to prospective students with an academic average percentage of between 85% and 100% if:
      - your application is received no later than 1 May of the year preceding commencement of studies; and
      - you have been conditionally admitted to a programme.
- More information is available at [www.up.ac.za/fees-and-funding](http://www.up.ac.za/fees-and-funding).



## 3. Undergraduate programmes

The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met. Closing dates are indicated by means of a red footer number that is beside the name of the programme, unless indicated at the specific programme. Refer to the dates at the bottom of each page.

In the faculty tables on the following pages, suggested second-choice programmes are indicated in a line directly below the programme it pertains to, where such a second-choice programme/s may be applicable.

- The Online Application makes provision for two study choices.
- The demand for admission into programmes at the University of Pretoria by far exceeds the availability of study spaces. It is therefore sensible to add a second-choice programme on the Online Application.
- Prospective students' preferred programme should be indicated as their first study choice.
- Applicants whose applications for their first study choice are unsuccessful, will automatically be considered for admission into their second study choice programme.
- For suggested second-choice programmes that may provide a chance for reconsideration for the applicant's first study choice during the first year of study, refer to the faculty tables.

- The second choices are merely suggestions and must not be seen as compulsory second choices.
- Remember that admission to your second-choice programme does not guarantee later admission to your first choice of programme.

**Note:** The asterisks below refer to the minimum requirements for 2021 column in the following faculty tables:

- Faculty of Engineering, Built Environment and Information Technology
  - Faculty of Health Sciences
  - Faculty of Natural and Agricultural Sciences
  - Faculty of Veterinary Science
- \* Cambridge A Level candidates who obtained at least a D in the required subjects will be considered for admission. Students in the Cambridge system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences.
- \* International Baccalaureate (IB) HL candidates who achieved at least a 4 in the required subjects will be considered for admission. Students in the IB system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences.

### Faculty of Education

#### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution; and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Prospective students with an APS of 26–27 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, in particular those who need financial support and/or placement in a residence, to apply as soon as possible.
- English will be the only language of teaching and learning (in lectures, tutorials and assessments) for all academic modules in the undergraduate programmes, except in cases where the modules or programmes require a language other than English. Any modules providing professional preparation that requires separate English and Afrikaans classes will be identified and will be explicitly listed as such. Modules for the BEd (Foundation Phase Teaching) that are language context specific, namely English, Afrikaans and indigenous African languages, will continue to be offered in current language contexts due to the University's recognition of the need for home-language teaching in the foundation environment, as specified in the Policy on Minimum Requirements for Teacher Education Qualifications (Gazette 38487, 19 Feb 2015). The teaching practice modules will allow English and Afrikaans assessments according to the language of tuition of the schools in which the teaching practice was performed.

University of Pretoria website [www.up.ac.za/education](http://www.up.ac.za/education)

National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)

Programmes	Minimum requirements for 2021*		
	Achievement level		APS
	English Home Language or English First Additional Language		
NSC/IEB	AS Level		
<b>BEd (Foundation Phase Teaching) <sup>3</sup></b> [Pre-primary to Grade 3] [4 years]	4	D	28 (26–27 admission based on the NBT)
The suggested second-choice programmes for BEd (Foundation Phase Teaching) [Pre-primary to Grade 3] are any other BEd programme.			
Careers: Teachers and training officials in pre-primary or primary schools			
<b>BEd (Intermediate Phase Teaching) <sup>3</sup></b> [Grades 4 to 6] [4 years]	4	D	28 (26–27 admission based on the NBT)
The suggested second-choice programmes for BEd (Intermediate Phase Teaching) [Grades 4 to 6] are any other BEd programme.			
Careers: Teachers and training officials in primary schools			



Programmes	Minimum requirements for 2021*		
	Achievement level		APS
	English Home Language or English First Additional Language		
NSC/IEB	AS Level		
<b>BEd (Senior Phase and Further Education and Training Teaching) <sup>3</sup></b> [Grades 7 to 12] [4 years]	4	D	28 (26–27 admission based on the NBT)
An additional subject requirement for elective modules in <b>Economic and Management Sciences</b> is Mathematics, passed with an achievement level of 4 (50%–59%) in Grade 12.			
Additional subject requirements for elective modules in <b>Physical Sciences or Life Sciences</b> are Physical Sciences, passed with an achievement level of 5 (60%–69%), and Mathematics passed with an achievement level of 5 (60%–69%) in Grade 12.			
The suggested second-choice programmes for BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] are any other BEd programme.			
Careers: Teachers and training officials in primary or secondary schools			
<b>Higher Certificate in Sports Science Education <sup>3</sup></b> [1 year]	4	D	20
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.			
<b>Selection process:</b>			
<ul style="list-style-type: none"> <li>• Applicants who indicate the Higher Certificate in Sports Science Education as their first- or second-choice will be considered.</li> <li>• All applicants will be considered by the Student Administration of the Faculty based on the academic admission requirements.</li> <li>• Applicants who meet the academic requirements will then be further considered for the different sports codes in deliberation with TuksSport, according to their sports achievements.</li> <li>• Students who have been nominated by an official sports club of the University will enjoy preference for selection.</li> <li>• After the successful completion of the Higher Certificate in Sports Science Education, applicants who had obtained only an Admission to Diploma studies endorsement at the end of Grade 12 may be considered, based on their academic performance, for admission to the BEd (Senior Phase and Further Education and Training Teaching) degree, with specialisation in the elective combination of Human Movement Studies and Sports Management. These applications are subject to approval by the Faculty Board and Senate.</li> </ul>			
Careers: Sports coaching, sports and exercise industry			

\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.

## Faculty of Economic and Management Sciences

### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the National Senior Certificate (NSC) with admission to bachelor's degree studies; candidates who are graduates of other tertiary institutions or have been granted the status of graduates of such institutions; and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.

University of Pretoria website [www.up.ac.za/ems](http://www.up.ac.za/ems)

National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)



Programmes	Minimum requirements for 2021*				APS
	Achievement level				
	English Home Language or English First Additional Language		Mathematics		
	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BCom (Accounting Sciences)<sup>3</sup></b> [3 years]	5	C	6	B	34
The suggested second-choice programmes for BCom (Accounting Sciences) are BCom and BCom (Financial Sciences).					
<b>Careers:</b> First step towards qualifying as chartered accountants, external auditors, taxation professionals and advisors, and financial directors or managers					
<b>BCom (Investment Management)<sup>3</sup></b> [3 years]	5	C	6	B	34
The suggested second-choice programmes for BCom (Investment Management) are BCom, BCom (Financial Sciences) and BCom (Economics).					
<b>Careers:</b> Portfolio/fund manager, investment analyst, risk manager/analyst, quantitative analyst, financial advisor/planner, wealth manager, investment strategist.					
<b>BCom (Financial Sciences)<sup>3</sup></b> [3 years]	5	C	5	C	32
The suggested second-choice programmes for BCom (Financial Sciences) are BCom and BCom – Extended programme.					
<b>Careers with a focus on:</b>					
<ul style="list-style-type: none"> <li><b>Financial accounting:</b> Financial accountants, credit controllers, SAIPA (South African Institute of Professional Accountants) and ACCA (Association of Chartered Certified Accountants)</li> <li><b>Financial management:</b> Management accountants, management consultants, financial advisors, cost accountants and financial managers</li> <li><b>Taxation:</b> Tax advisors, tax auditors in public practice, tax policy designers, tax professionals, tax compliance managers, SARS auditors and tax risk managers</li> <li><b>Internal auditing:</b> Internal auditors, risk officers, forensic auditors, IT auditors, performance auditors, environmental auditors, compliance officers, government auditors and governance auditors</li> </ul>					
<b>BCom (Econometrics)<sup>3</sup></b> [3 years]	5	C	6	B	32
The suggested second-choice programmes for BCom (Econometrics) are BCom, BCom (Statistics and Data Science) and BCom (Economics).					
<b>Careers:</b> Econometricians are employed by the government, the central bank, private and commercial banks, leading stockbrokers and consultancies, both locally and internationally. Positions include analysts, consultants, researchers, traders or brokers, and academics. The work mostly entails statistical analysis (forecasting, structural and policy analysis) of economic and financial markets and interrelationships.					
<b>BCom (Economics)<sup>3</sup></b> [3 years]	5	C	5	C	32
The suggested second-choice programmes for BCom (Economics) are BCom and BCom – Extended programme.					
<b>Careers:</b> Economists may specialise in banking, public finance, international trade and investment or economic development. They are employed by the government, the central bank, private and commercial banks, stock brokerage firms and consultancies, both locally and internationally. Positions include analysts, consultants, researchers, traders and academics.					
<b>BCom (Law)<sup>3</sup></b> [3 years]	5	C	5	C	32
The suggested second-choice programmes for BCom (Law) are BA (Law) and LLB.					
<b>Careers:</b> First step towards becoming attorneys, legal advisors, advocates, prosecutors, presiding officers (magistrates or judges) and academics in the legal field					
<b>BCom (Statistics and Data Science)<sup>3</sup></b> [3 years]	5	C	5	C	32
The suggested second-choice programmes for BCom (Statistics and Data Science) are BCom and BCom – Extended programme.					
<b>Careers:</b> Data scientists, statistical analysts in several industries, researchers, consultants and lecturers					



**Note:** Accountancy is not a subject requirement for any of the BCom and BAdmin programmes.

\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.

Programmes	Minimum requirements for 2021*				APS
	Achievement level				
	English Home Language or English First Additional Language		Mathematics		
	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BCom (Informatics)</b> <b>Focus area: Information Systems<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom (Informatics) Focus area: Information Systems are BCom and BCom – Extended programme.					
<b>Careers:</b> Managers in the information technology environment, computer software or hardware support services, computer systems analysts, financial information systems analysts, business analysts, information facilitators, IT training officers, systems developers, business systems analysts					
<b>BCom (Agribusiness Management)<sup>3</sup></b> [3 years]	5	C	5	C	30
The suggested second-choice programmes for BCom (Agribusiness Management) are BCom and BCom – Extended programme.					
<b>Careers:</b> Agricultural economists and agribusiness managers at commercial banks, agribusinesses and other agricultural and food-oriented institutions, commodity traders on future markets on derivatives, working for producer organisations, as consultants, valuers, researchers or policymakers, or as managers and project managers in the above.					
<b>BCom<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom are any other BCom degree as well as the BCom – Extended programme.					
<b>Careers:</b> The degree does not lead to a specific vocational outcome but, to some extent, offers opportunities to determine your own career outcome. Students are able to compile their own curricula with a view to future work opportunities in all sectors.					
<b>BCom (Business Management)<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom (Business Management) are BCom, BCom (Supply Chain Management) and BCom – Extended programme.					
<b>Careers:</b> A wide variety of opportunities exist in the areas of administration, finance, marketing and human resources management, including employment as teachers, lecturers, general managers and management consultants.					
<b>BCom (Supply Chain Management)<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom (Supply Chain Management) are BCom, BCom (Business Management) and BCom – Extended programme.					
<b>Careers:</b> The purpose of this programme is to equip students with the ability to participate in functional management within an integrated supply chain. This includes supply management, production and operations management, warehousing, transport management and supply chain strategy.					
<b>BCom (Marketing Management)<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom (Marketing Management) are BCom, BCom (Business Management) and BCom – Extended programme.					
<b>Careers:</b> Product management, customer service management, customer relationship management, strategic marketing, sales management, brand management, advertising management, media planning, marketing research management and promotions management					
<b>BCom (Human Resource Management)<sup>3</sup></b> [3 years]	5	C	4	D	30
The suggested second-choice programmes for BCom (Human Resource Management) are BCom, BCom (Business Management) and BCom – Extended programme.					
<b>Careers:</b> Human resources practitioners, human resources consultants, mediators, labour relations specialists, human resources managers, personnel managers, training officers, liaison officers, psychometrists and industrial psychologists. In their capacity as human resources 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.					
<b>BCom – Extended programme<sup>3</sup></b> [4 years]	4	D	3	E	26
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.					
<b>Note:</b> The first year of study is presented at the Mamelodi Campus. Admission to the second year of study at the Hatfield Campus is subject to selection.					
<b>Careers:</b> Career opportunities depend on the field of study chosen by students in their second year of study.					
<b>BAdmin (Public Management and International Relations)<sup>3</sup></b> [3 years]	5	C	Mathematics 3 or Mathematical Literacy <sup>4</sup>	E	28
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.					
<b>Careers:</b> Diplomats, political analysts, managers in the public sector, local government and the private sector, non-governmental organisations, international organisations and embassies. Graduates are often employed in human resources sections and planning and general administrative divisions.					

## Faculty of Engineering, Built Environment and Information Technology

### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional 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.
- Conditional admission to the four-year programmes in the School of Engineering is guaranteed only if a prospective student complies with ALL the requirements as indicated in the table.
- Admission to ENGAGE in the School of Engineering will be determined by the NBT and NSC results, achievement levels of 5 for Mathematics and 5 for Physical Sciences, and an achievement level of 5 for English, together with an APS of 30.
- Students may apply directly to be considered for the ENGAGE programme.
- All lectures at the University of Pretoria are presented in English only.

**Note:** The Engineering Council of South Africa (ECSA) accredits our programmes and our degrees meet the requirements for Professional Engineers in SA.

University of Pretoria website [www.up.ac.za/ebit](http://www.up.ac.za/ebit)  
National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BEng (Industrial Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Industrial Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Industrial engineers design, test, implement and manage a wide range of man/machine systems for production and the delivery of services. Organisational matters that require optimisation include site selection and layout of facilities, manufacturing, inventory control, materials handling, supply chain management, quality management, cost control, financial services, maintenance, reliability, computer simulation, information systems, human resources and business law.							
<b>BEng (Chemical Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Chemical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Chemical engineers are involved in industrial processes that convert raw materials to products with a higher economic value. This is achieved by means of physical, thermal, chemical, biochemical and mechanical changes and processes. Chemical engineers apply their specialised knowledge in the petroleum, food, minerals processing, power generation and the paper and pulp industries, water and effluent treatment, and environmental engineering activities, including air pollution control. Like those in other engineering disciplines, chemical engineers are involved in research and development, techno-economic evaluation, equipment and plant design, process control and optimisation, construction, commissioning, operation and management, and the marketing and distribution of the final products.							
<b>BEng (Civil Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Civil Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Civil engineers design, build and maintain constructions such as tower blocks and skyscrapers, dams, canals and pipelines, roads, bridges, tunnels, railways, airports, power stations, towers, waterworks and outfall installations. They are involved in financial modelling, feasibility studies and the management and rehabilitation of large asset portfolios.							
<b>BEng (Electrical Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Electrical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Electrical engineers are active in the generation, storage, transmission, distribution and utilisation of electrical energy. There is a bright future in renewable energy. Electrical engineers design, supervise the construction, oversee the optimal operation and assure perfect and timely maintenance of all electrical installations for municipalities, residential areas, commercial buildings, factories, mines and industries. Rail transport, water pumping, electrical grids, telecommunications, energy management and smart lighting all fall within the scope of electrical engineering.							
<b>BEng (Electronic Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Electronic Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Electronic engineers are active in various fields, such as telecommunications (fixed networks, wireless, satellite, television, radar and radio frequency networks), entertainment and medicine (magnetic resonance imaging, X-rays, cardiopulmonary resuscitation, infrared tomography, electroencephalograms (EEGs), electrocardiograms (ECGs), rehabilitation engineering and biokinetics), integrated circuit design, bioengineering, military equipment design (vehicle electronics, smart bombs, night vision, laser systems), transport (e-tags, speed measuring, railway signalling, global positioning system (GPS) and mapping), 'smart' dust, safety and security systems (face and speech recognition), banking (ATMs), commerce, robotics, education, environmental management, tourism and many more.							

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BEng (Mechanical Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Mechanical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Mechanical and aeronautical engineers are concerned with power-generating machines and systems such as vehicles, ships, air-conditioners, pebble-bed nuclear reactors, aeroplanes, engines and turbines, robots and biomedical systems. Areas of specialisation include product design and manufacturing (such as the design, testing and improvement of mechanical, electrical, pneumatic and hydraulic systems), marine engineering and naval architecture, biomedical engineering, air-conditioning and refrigeration, aerospace systems and aircraft/misile engineering, vehicle engineering, maintenance engineering and energy management (gas and steam turbines, nuclear power reactors, petrol engines, cooling towers and renewable energy systems).							
<b>BEng (Metallurgical Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Metallurgical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Metallurgical engineers unlock the riches of deposits of metal ores, coal and diamonds and optimise the manufacture and performance of metallic components. They work in plants where valuable minerals are recovered from ore, where metals are produced from the minerals and where the metals are converted into useful materials as well as high-performance products from metals such as steel or aluminium. Careers include production engineers, plant managers, consultants, forensic engineers and researchers.							
<b>BEng (Mining Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Mining Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Mining engineers have a wide range of opportunities, namely mining (mine management, technical management of ventilation, rock mechanics, rock breaking, mineral resources), financial evaluation and management (mine design, financial evaluation of mines, mine feasibility studies, mine environmental impact studies), mining and drilling contracting (mining, tunnelling, shaft sinking, mine development, ore evaluation), mining research, mining equipment design and manufacture, mining marketing and mining administration at national, provincial and international levels.							
<b>BEng (Computer Engineering)<sup>3</sup></b> [4 years]	5	C	6	B	6	B	<b>35</b>
The suggested second-choice programmes for BEng (Computer Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).							
<b>Careers:</b> Computer engineers are active in all fields of the information superhighway and the information and communication technology (ICT) world, which include computer systems, software engineering, computer and communications networks, wireless sensor networks, embedded software, electronics, smart control systems and automation, data security, e-commerce, pattern recognition (face and speech recognition) and artificial intelligence. They specialise in combining hardware, software and communication technologies to optimise system performance.							
<b>Engineering Augmented Degree Programme (ENGAGE)<sup>3</sup></b> [5 years]	5	C	5	C	5	C	<b>30</b>
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.							
<b>Note:</b> The admission requirements above are relevant to prospective students who will commence their studies in 2021. Candidates who do not comply with the minimum admission requirements for the four-year programmes, but who do comply with the minimum admission requirements for ENGAGE, must write the NBT.							

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BSc (Architecture)<sup>1</sup></b> [3 years]	5	C	4	D	4	D	<b>27</b>
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.							
Will only be considered as first study choice. Selection programme: Selection includes an interview. <b>Careers:</b> The BSc (Architecture) degree programme enables graduates to register with the South African Council for the Architectural Profession (SACAP) as candidate architectural technologists. The qualification is the first step to future registration as a candidate senior architectural technologist or a candidate architect.							
<b>BSc (Construction Management)<sup>3</sup></b> [3 years]	5	C	5	C	4	D	<b>30</b>
The suggested second-choice programme for BSc (Construction Management) is BSc (Real Estate).							
<b>Careers:</b> After completing the three-year undergraduate degree programme, graduates could enter careers in, among others, construction site management or subcontracting. On completion of the ensuing one-year honours programme, graduates are able to register as professional construction managers and opportunities become much wider, including project management, property development, portfolio management, commercial marketing and managerial positions in the corporate environment.							
<b>BSc (Real Estate)<sup>3</sup></b> [3 years]	5	C	5	C	4	D	<b>30</b>
The suggested second-choice programme for BSc (Real Estate) is BCom (Investment Management).							
<b>Careers:</b> Apart from a future in areas such as property investment, property finance and facilities, and property management, further studies to obtain an honours degree in real estate can lead to registration as professional property valuers. Career opportunities encompass the entire spectrum of the property sector, whether as entrepreneurs in the private sector or as employees in the private, government or semi-government sectors.							

\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.



Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>SCHOOL FOR THE BUILT ENVIRONMENT</b>							
<b>BSc (Quantity Surveying) <sup>3</sup></b> [3 years]	5	C	5	C	4	D	30
The suggested second-choice programmes for BSc (Quantity Surveying) are BSc (Construction Management) and BSc (Real Estate).							
<b>Careers:</b> Quantity surveying is the science that delivers specialised financial and contractual services and advice to clients in the building and construction industry, as well as related industries. The three-year undergraduate degree is the first step towards registration as quantity surveyors. The ensuing one-year honours programme leads to registration as candidate professional quantity surveyors. Career opportunities, apart from those in the private, government or semi-government sectors, also exist in the property, banking, mining and manufacturing industries.							
<b>BTRP – Bachelor of Town and Regional Planning <sup>3</sup></b> [4 years]	5	C	4	D	-	-	27
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.							
<b>Careers:</b> Town and regional planners, development practitioners, urban managers, real estate analysts and researchers. While many town and regional planners act as private consultants to the public and private sectors, the majority are employed by government, research agencies (such as the Council for Scientific and Industrial Research (CSIR) and the Human Sciences Research Council (HSRC)), non-governmental organisations, community-based organisations, major financial institutions and property development groups. The qualification will enable graduates to register as professional town and regional planners with the South African Council for Planners.							

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics				
	NSC/IEB	AS Level	NSC/IEB	AS Level			
<b>SCHOOL OF INFORMATION TECHNOLOGY</b>							
<b>BIT (Information Systems) <sup>3</sup></b> [3 years]	5	C	4	D			30
The suggested second-choice programme for BIT (Information Systems) is BIS (Information Science).							
Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. <b>Careers:</b> Data scientist, IT auditor, geographic information specialist, IT entrepreneur, IT tax specialist, e-business consultant, programmer, business analyst, project manager, CIO, CTO and knowledge manager							
<b>BSc (Computer Science) <sup>3</sup></b> [3 years]	5	C	5	C			30
The suggested second-choice programmes for BSc (Computer Science) are BSc (Information and Knowledge Systems) and BCom (Informatics).							
Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. <b>Careers:</b> Programmers, systems analysts, systems architects, consultants, database administrators, network analysts and researchers							
<b>BIS (Multimedia) <sup>3</sup></b> [3 years]	4	D	5	C			30
The suggested second-choice programmes for BIS (Multimedia) are BIS (Information Science), BIS (Publishing), BSc (Information and Knowledge Systems) and BCom (Informatics).							
Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. <b>Careers:</b> Programmers, web designers, animation specialists, video editors and 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, or graphic, games or web development.							
<b>BSc (Information and Knowledge Systems) <sup>3</sup></b> [3 years]	4	D	5	C			30
The suggested second-choice programme for BSc (Information and Knowledge Systems) is BSc (Computer Science).							
Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. <b>Careers:</b> Graduates will differentiate themselves in an application environment by choosing one of the following options: data science, genetics, geographical information systems, IT and enterprises, IT and law, IT and music or software development.							
<b>BIS (Information Science) <sup>3</sup></b> [3 years]	4	D	-	-			28
The suggested second-choice programmes for BIS (Information Science) are BIS (Publishing), BCom (Informatics) and BA.							
Should a candidate obtain an APS of between 25 and 27, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. If informatics is selected at the first-year level, an achievement level of 5 is required in Mathematics. <b>Careers:</b> Information and knowledge managers (manage information and knowledge resources), information or e-commerce specialists (organise, retrieve and add value to information), consultants on information products (services and systems), information brokers (act as infopreneurs and buy and sell information products and services), and system specialists/analysts/technologists (develop information systems)							
<b>BIS (Publishing) <sup>3</sup></b> [3 years]	5	C	-	-			28
The suggested second-choice programmes for BIS (Publishing) are BIS (Information Science), BA (Languages) and BA.							
Should a candidate obtain an APS of between 25 and 27, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached. <b>Careers:</b> Entry-level job opportunities include assisting specific role-players in the publishing value chain (such as MDs of publishing houses, commissioning editors, editors and production or marketing managers), market or picture research, copyright negotiations, copy-editing and proofreading, marketing and promotion, distribution and delivery.							
<b>BCom (Informatics) Focus area: Information Systems <sup>3</sup></b> [3 years]	5	C	4	D			30
This programme is administered by the Faculty of Economic and Management Sciences.							

\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.



## Faculty of Law

### Important information on undergraduate programmes for 2021

- In order to register for a first bachelor's degree at the University, a candidate should have completed the National Senior Certificate (NSC) or equivalent qualification, and meet the minimum requirements for admission to bachelor's degree study.
- Candidates must also comply with the particular subject and level requirement as well as with the minimum Admission Point Score (APS) for the relevant programme.
- The APS calculation is based on a candidate's achievement in six 20-credit NSC-recognised subjects with bands 1 to 7, indicating the scale of achievement. Thus, the highest APS that can be achieved is 42.
- Please note that Life Orientation is a 10-credit subject and is excluded from the calculation when determining the APS.
- Grade 11 results are used in the conditional admission of prospective students.
- The final Grade 12 results will be the determining factor with regard to final admission.
- All modules will be presented only in English as medium of instruction.
- The language of communication and correspondence is English.

University of Pretoria website

[www.up.ac.za/law](http://www.up.ac.za/law)

Programmes	Minimum requirements for 2021*			
	Achievement level			APS
	English Home Language or English First Additional Language			
	NSC/IEB	AS Level		
<b>LLB <sup>3</sup></b> [4 years]	5	C		32**
The suggested second-choice programmes for LLB are BA (Law) and BCom (Law).				
<b>**Candidates that fulfil the requirements for admission as set out in this brochure will be conditionally accepted on a first-come-first-served basis until 30 September, subject to the availability of places. However, as applications already open on 1 March and spaces are limited candidates are urged to apply as early as possible in the year.</b>		<b>Queries relating to LLB applications can be directed to:</b> Ms Helen van Tonder (Faculty of Law) Tel +27 (0)12 420 4265 Fax +27 (0)12 420 2090 Email <a href="mailto:helen.vantonder@up.ac.za">helen.vantonder@up.ac.za</a>		
<b>BA (Law) <sup>3</sup></b> [3 years]		<b>Queries relating to BA (Law) applications can be directed to:</b> Ms Ernika Monyeki (Faculty of Humanities) Tel +27 (0)12 420 5241 Email <a href="mailto:ernika.monyeki@up.ac.za">ernika.monyeki@up.ac.za</a>		
<b>BCom (Law) <sup>3</sup></b> [3 years]		<b>Queries relating to BCom (Law) applications can be directed to:</b> Ms Ronel Steenkamp (Faculty of Economic and Management Sciences) Tel +27 (0)12 420 3347 Email <a href="mailto:ronel.steenkamp@up.ac.za">ronel.steenkamp@up.ac.za</a>		

\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.



## Faculty of Humanities

### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional admission of prospective students.
- A valid qualification with admission to degree studies is required.

### Notes on the NBT:

- If you are interested in a non-selection programme, you may be required to write the NBT ([www.nbt.ac.za](http://www.nbt.ac.za)) and you need to pass the Academic Literacy Test with at least 64%.
- If you have been granted conditional admission, but obtained an APS of 26 or 27 in the NSC, you may be considered for admission by the Admissions Committee of the Faculty of Humanities, subject to the availability of space and the results of the National Benchmark Test (NBT).

University of Pretoria website [www.up.ac.za/faculty-of-humanities](http://www.up.ac.za/faculty-of-humanities)  
 National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)



Programmes	Minimum requirements for 2021*				APS
	Achievement level				
	Mathematics		English Home Language or English First Additional Language		
	NSC/IEB	AS Level	NSC/IEB	AS Level	

### SELECTION PROGRAMMES

<b>BA (Speech-Language Pathology) <sup>2</sup></b> [4 years]	5	C	5	C	32
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For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 3614.

Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 32 in the NSC. The conditional selection process starts in July each year. For more information, please contact the programme coordinator at +27 (0)12 420 3614. For the Audiology and Speech-Language Pathology programme, the first study year is the same and the **NBT is not required**.  
**Note:** We will consider both first- and second-choice applications for BA (Speech-Language Pathology).  
**Careers:** Work in education and special education, hospitals, clinics or rural communities, or in private practices, government, military and academic institutions (teaching and research)

<b>BA (Audiology) <sup>2</sup></b> [4 years]	5	C	5	C	32
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For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 6774.

Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 32 in the NSC. The conditional selection process starts in July each year. For more information, please contact the programme coordinator at +27 (0)12 420 6774. For the Audiology, and Speech-Language Pathology programmes, the first study year is the same and the **NBT is not required**.  
**Note:** We will consider both first- and second-choice applications for BA (Audiology).  
**Careers:** Diagnostic and rehabilitative audiology, audiometry and hearing therapy, work in education, special education, hospitals, clinics, private practice or government, military and academic institutions (teaching, research) and industry

<b>BA (Fine Arts) <sup>2</sup></b> [4 years]	5	C			30
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For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 6783.

For the BA (Fine Arts) programme, the **NBT is not required**. To retain admission, you must obtain an APS of at least 28 in the NSC. The selection process has two stages:  
 • Submission of a portfolio of at least 20 recent works, which must be sent to the Department of Visual Arts by 30 June. The Department will then use your APS, your portfolio, your academic merit score and a questionnaire to determine if you are eligible for the final selection process. Please submit your online application on the UP Portal at least two weeks before 30 June.  
 • The final selection process takes place in July and consists of an interview and selection tests. Detailed information about the selection steps, including the portfolio requirements and the questionnaire, can be obtained at [www.up.ac.za/visualarts](http://www.up.ac.za/visualarts).  
 – You will be notified by email and/or SMS if you qualify for the final selection process.  
 – Approximately 100 applicants are invited to take part in the final selection process and the results are made available by mid-August. The UP online status of applicants will be updated accordingly in September.  
**Careers:** Gallery managers, art facilitators, art consultants/advisors, art educators, artists in the fine arts, artists in new media, artists in applied arts

<b>BA (Information Design) <sup>2</sup></b> [4 years]	5	C			30
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For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 3194/3686.

For the BA (Information Design) programme, the **NBT is not required**. To retain admission, you must obtain an APS of at least 28 in the NSC. The selection process has two stages:  
 • Submission of a portfolio of at least 20 recent works, which must be sent to the Department of Visual Arts by 30 June. The Department will then use your APS, your portfolio, your academic merit score and a questionnaire to determine if you are eligible for the final selection process. Please submit your online application on the UP Portal at least two weeks before 30 June.  
 • The final selection process takes place in July and consists of an interview and selection tests. Detailed information about the selection steps, including the portfolio requirements and the questionnaire, can be obtained at [www.up.ac.za/visualarts](http://www.up.ac.za/visualarts).  
 – You will be notified by email and/or SMS if you qualify for the final selection process.  
 – Approximately 100 applicants are invited to take part in the final selection process and the results are made available by mid-August. The UP online status of applicants will be updated accordingly in September. The final selection process takes place in July and consists of an interview and selection tests.  
**Careers:** Animators, graphic designers, illustrators, interaction designers, communication designers, art directors, media production managers, design managers, designers of animation and motion graphics, design educators, media designers or freelance designers; typographers for advertising and branding agencies, publishing industries, web design companies, broadcasting and animation studios; in-house design for large companies, state and parastatal organisations, research and educational institutions, public relations and marketing companies, design consultants, printers and production houses or owners of private studios

Programmes	Minimum requirements for 2021*		
	Achievement level		APS
	English Home Language or English First Additional Language		
NSC/IEB	AS Level	NSC/IEB	AS Level

### SELECTION PROGRAMMES

<b>Bachelor of Music (BMus) <sup>2</sup></b> [4 years]	5	C	30
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The suggested second-choice programme for Bachelor of Music (BMus) is BA or consult the Programme Manager at +27 (0)12 420 3747.

For BMus, the **NBT is not required**. The Department selects candidates based on a practical singing or instrument performance of 15 minutes, as well as a theoretical test.  
**Required subjects:** Music with at least a 4 (50–59%) as a Grade 12 subject, or Grade VII Practical and Grade V Theory (Unisa/Royal Schools/Trinity), as well as knowledge of music notation. Students who have been conditionally selected for BMus must undergo another practical selection test. The date of this selection will be determined in consultation with the programme coordinator. To retain admission, you must obtain an APS of at least 28 in the NSC.  
**Careers:** Music teachers, music technicians, solo and/or chamber music performers, orchestral musicians and composers

<b>Bachelor of Music (BMus)—Extended programme <sup>2</sup></b> [5 years]	4	D	26
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For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 3747.

For the (BMus)—Extended programme, the **NBT is required**. The Department selects candidates based on a practical singing or instrument performance of 15 minutes, as well as a theoretical test.  
**Required subjects:** Music with at least a 4 (50–59%) as Grade 12 subject, or Grade V Practical and Grade III Theory (Unisa/Royal Schools/Trinity), or a comparable standard. The date of this selection will be determined in consultation with the programme coordinator. To retain admission, you must obtain an APS of at least 26 in the NSC. Should your English results be between 40% and 49%, you must obtain at least 51% in the NBT for Academic Literacy (AL). You will be required to write the NBT as soon as possible so that your application can be forwarded to the Department for further selection and additions. If you are admitted to this programme, you may not be considered for any other degree programme within the Faculty, except for the BMus degree.  
**Careers:** Music teachers, music technicians, solo and/or chamber music performers, orchestral musicians and composers

<b>Bachelor of Drama (BDram) <sup>2</sup></b> [3 years]	5	C	30
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The suggested second-choice programme for Bachelor of Drama (BDram) is BA or consult the Programme Manager at +27 (0)12 420 2643.

The Department selects candidates based on an audition in August. To retain admission, you must obtain an APS of at least 28 in the NSC. **The NBT is not required for this programme.**  
**Careers:** Actors (theatre, film, television and radio), physical theatre artists, theatre critics, radio and television presenters, directors, educational theatre practitioners and educators, community theatre artists and educators, light and sound operators, voice artists, stage and production managers, programme facilitators and managers, performing arts administrators, camera operators, documentary film-makers, digital and new media editors, playwrights, scriptwriters, play devisors, film and theatre researchers

Programmes	Minimum requirements for 2021*		
	Achievement level		APS
	English Home Language or English First Additional Language		
NSC/IEB	AS Level	NSC/IEB	AS Level

### NON-SELECTION PROGRAMMES

<b>BA <sup>3</sup></b> [3 years]	5	C	30
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For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.

To retain admission, candidates must obtain an APS of at least 28 in the NSC. **Candidates are encouraged to write the NBT.**

**Careers:** There are a range of career options for students who complete the BA programme. Since the BA programme is relatively flexible, students are able to choose the same majors and elective modules as students studying in more structured programmes.

**Note:** students who wish to become psychologists must complete a BA majoring in Psychology, the BScSciHons (Psychology), and the MA (Clinical, Counselling or Research Psychology).  
**Careers:** Clinical, counselling (sports and community) and research psychologist, registered counsellor or registered psychometrist. (Contact the Health Professions Council of South Africa [HPCSA—[www.hpcsa.co.za](http://www.hpcsa.co.za)] for information on the requirements.)

<b>Bachelor of Social Work (BSW) <sup>3</sup></b> [4 years]	5	C	30
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The suggested second-choice programme for Bachelor of Social Work (BSW) is BA.

To retain admission, you must obtain an APS of at least 28 in the NSC. **Candidates are encouraged to write the NBT.** Departmental selection takes place at the end of the first year and is based on academic merit, an aptitude test and an interview. A police clearance certificate (PCC) is required to study social work. In terms of the Children's Act (2005), all registered student social workers have to complete Form 30 in Part B of the National Child Protection Register (NCPR).  
**Career:** Social worker

\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.



Programmes	Minimum requirements for 2021*						
	Achievement level						
	Mathematics		English Home Language or English First Additional Language		APS		
	NSC/IEB	AS Level	NSC/IEB	AS Level			
<b>NON-SELECTION PROGRAMMES</b>							
<b>BA (Law)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programmes for BA (Law) are LLB, BCom (Law) and BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>The NBT is not required for this programme.</b> <b>Career:</b> Lawyer (BA (Law) degree plus an LLB degree required)							
<b>BA (Languages)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programme for BA (Languages) is BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> Advertising, media and communication, copywriting, creative writing, text and document design, editing, language planning, language teaching and training, lexicography (compilation of dictionaries), technical writing, public relations, translation, publishing, diplomatic sector or tourism. If you would like to become a language practitioner we recommend you continue with a BAHons (Applied Language Studies) once you have completed a BA (Languages) degree. Once you have completed a Postgraduate Certificate in Education, you will be able to enter the teaching profession.							
<b>BSocSci (Industrial Sociology and Labour Studies)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programme for BSocSci (Industrial Sociology and Labour Studies) is BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> 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							
<b>BSocSci (Heritage and Cultural Tourism)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programme for BSocSci (Heritage and Cultural Tourism) is BA or consult the Programme Manager at +27 (0)12 420 5956.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> Travel, tourism, tourist guides, management, hospitality, marketing, journalism, government, education and/or work in the broader museum and heritage fields on a local, national and international level.							
<b>BSocSci (Philosophy, Politics and Economics)</b> <sup>3</sup> [3 years]		5		C	5	C	32
The suggested second-choice programmes for BSocSci (Philosophy, Politics and Economics) are BPolSci (International Studies) and BPolSci (Political Studies) or consult the Programme Manager at +27 (0)12 420 2326.							
To retain admission, you must obtain an APS of at least 32 in the NSC. <b>The NBT is not required for this programme.</b> <b>Careers:</b> You will be eligible for a career in economic or political policy-making, journalism or the diplomatic service.							
<b>BPolSci (International Studies)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programmes for BPolSci (International Studies) are BPolSci (Political Studies) and BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> International relations, diplomatic service, political consultation, conflict resolution, policy analysis, strategic intelligence, governance, international political economics and risk analysis							
<b>BPolSci (Political Studies)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programmes for BPolSci (Political Studies) are BPolSci (International Studies) and BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> Policy analysis and consultation, political analysis and communication, governance, conflict resolution, strategic intelligence, political development and mobilisation and risk analysis							
<b>BA (Visual Studies)</b> <sup>3</sup> [3 years]			5		C	30	
The suggested second-choice programme for BA (Visual Studies) is BA.							
To retain admission, you must obtain an APS of at least 28 in the NSC. <b>Candidates are encouraged to write the NBT.</b> <b>Careers:</b> Art and film critics, visual culture specialists, art and culture educators, academics, art historians, curators, visual analysts, visual consultants, media and communication analysts, social media coordinators, gallery managers							



\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.



## Faculty of Veterinary Science

### Important information on undergraduate programmes for 2021

- The Faculty offers the following undergraduate programmes:
  - Bachelor of Veterinary Science (BVSc)
  - Bachelor of Veterinary Nursing (BVetNurs)
- Both undergraduate programmes in this Faculty include selection procedures, which are based on merit within different categories.
- The following persons may be considered for admission:
  - applicants who are currently in their final school-year and have applied with their final results of the preceding year of schooling (Grade 11 or equivalent);
  - applicants who have completed their final school-year, but have not yet commenced further studies;
  - applicants who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement. This certificate must be certified by Universities South Africa (USAf);
  - applicants who are currently enrolled for tertiary education;
  - applicants who are graduates from another tertiary institution, or have been granted the status of a graduate of such an institution; and
  - applicants who are graduates of another faculty at the University of Pretoria.
- The highest ranking applicants are selected until the capacity is reached within each category.
- The Admissions Committee of the Faculty of Veterinary Science may assign spaces to another category when there are insufficient applicants who meet the minimum criteria in a particular category.
- The final number of places offered to applicants is determined by the Admissions Committee, taking into account the teaching facilities and available resources.
- In order to retain conditional admission applicants need to comply with the minimum subject requirements based on their final school-year examination results.
- South African school-leaving applicants enrolled for the NSC or IEB who have forfeited their placement and who still comply with the minimum requirements will automatically be considered in the second round of selection in January.

University of Pretoria website  
Enquiries

www.veterinary.up.ac.za  
vetug@up.ac.za

Programme	Minimum requirements for 2021*						
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		APS
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>Bachelor of Veterinary Science (BVSc)</b> <sup>1</sup> [6 years]	5	C	5	C	5	C	35
The suggested second-choice programmes for BVSc are BSc (Biological Sciences), BSc (Zoology) and BScAgric (Animal Science).							
<b>Careers:</b> Veterinarians in private practice, research, academia or state veterinary services. Veterinarians can also work in the following fields: diagnostic laboratories, veterinary public health (milk and meat hygiene, control of transfer of disease), technical services, research and product development in pharmaceutical and food industries, consultancy, laboratory animal management, wildlife management, poultry and pig production and animal welfare.							
<b>Bachelor of Veterinary Nursing (BVetNurs)</b> <sup>1</sup> [3 years]	4	D	4	D	4	D	28
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.							
<b>Careers:</b> Veterinary nurses can be employed by the following institutions: private veterinary practices, veterinary academic hospitals, the pharmaceutical industry, the animal food industry, animal welfare societies, zoological gardens, game parks, laboratory animal units, rehabilitation centres, research centres, animal boarding establishments, organised agriculture, dairies and farming operations.							

\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.



## Faculty of Natural and Agricultural Sciences

### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate with university endorsement, candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded from the calculation of the Admission Point Score (APS).
- Grade 11 results are used for the conditional admission of prospective students. Final admission is based on Grade 12 results.
- Please note that the Faculty does not accept GED and School of Tomorrow qualifications for entry into our programmes.

University of Pretoria website [www.up.ac.za/nas](http://www.up.ac.za/nas)

National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)

Programmes	Minimum requirements for 2021*							APS
	Achievement level							
	English Home Language or English First Additional Language		Mathematics		Physical Sciences			
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level		
<b>BSc (Entomology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Entomology) are any of the programmes listed in the biological or agricultural and food sciences programmes and BSc (Chemistry).								
<b>Careers:</b> Graduates could be employed at nature reserves, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, educational institutions and museums, pest management, quarantine and inspection services, in biochemical and biotechnology industries, in IT-related fields and in the corporate sector. Graduates with expertise in entomology are particularly highly sought after in the agricultural sector as insect management specialists or researchers.								
<b>BSc (Biochemistry)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Biochemistry) are any of the programmes listed in the biological or agricultural and food sciences programmes and BSc (Chemistry).								
<b>Careers:</b> Biochemistry offers many opportunities for exciting and challenging careers in the food and pharmaceutical, fine chemicals and waste-processing industries. Careers at research councils, such as the Medical Research Council (MRC), the Agricultural Research Council (ARC), the Cancer Association of South Africa (CANSA) and the Water Research Commission (WRC) are possibilities, as are academic institutions, the Council for Scientific and Industrial Research (CSIR) and forensic and pathology laboratories. Possible careers include that of researcher, teacher, lecturer and medical representative. Graduates are comfortable in work environments such as universities, research institutes, pharmaceutical companies, biotechnology companies and related industries.								
<b>BSc (Biological Sciences)</b> <sup>3</sup>	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Biological Sciences) are any of the programmes listed in the biological or agricultural and food sciences programmes or BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] (with elective modules in Physical Sciences or Life Sciences).								
This is a generic first-year programme in Biological Sciences. Students who are uncertain about which specialisation degree programme to choose may apply for this programme. Those who intend to apply for admission to MBChB or BChD in the second semester, when places become available in those programmes, may register for BSc (Biological Sciences) modules in the first semester, replacing Mathematics (WTW 134) with Science and World Views (FIL 155), People and their Environment (MGW 112) and Medical Terminology (MTL 180), with the proviso that should they not be selected and should they wish to continue with one of the Biological Sciences programmes, they must complete Mathematics (WTW 165) in the second semester of their first year. <b>Note:</b> Mid-year consideration for Health Sciences: Students who wish to add these three modules (FIL 155, MGW 112 and MTL 180) are required to have an APS of at least 35 and a minimum of 70% for Mathematics in the final NSC or equivalent qualification.								
<b>BSc (Biotechnology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programme for BSc (Biotechnology) is BSc (Biological Sciences).								
<b>Careers:</b> Graduates mostly find work as laboratory-based researchers or bio-entrepreneurs using medical, animal, plant or microbe-based technologies to develop products and services. If students combine biotechnology with additional qualifications such as law, they will be equipped for success in careers such as patent law, pharmaceutical sales and marketing, project management, computer programming (natural computation) and science journalism. Please note that the level of training and qualification plays an important role in determining the type of work a qualified biotechnologist can pursue.								
<b>BSc (Ecology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Ecology) are any of the programmes listed in the biological or agricultural and food sciences programmes.								
<b>Careers:</b> Graduates find work in environmentally-based statutory and private conservation organisations, organisations involved in the direct or indirect use of natural resources, environmental consultancies, environmental education initiatives and academic and training institutions.								
<b>BSc (Zoology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Zoology) are any of the programmes listed in the biological or agricultural and food sciences programmes.								
<b>Careers:</b> Graduates can look forward to a range of exciting career prospects. They could be employed at nature conservancies, environmental consultancies and conservation planning agencies, medical and veterinary research institutions, in biochemical and biotechnology industries, at educational institutions, in IT-related fields and in the corporate sector. Career opportunities include all the potential activities involved in modern research, development and training. These range from full-time involvement in the field or laboratory to full-time training activities, and usually include a stimulating combination of analytical work, fieldwork and human-resources-related work.								



Programmes	Minimum requirements for 2021*							APS
	Achievement level							
	English Home Language or English First Additional Language		Mathematics		Physical Sciences			
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level		
<b>BSc (Entomology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Entomology) are any of the programmes listed in the biological or agricultural and food sciences programmes.								
<b>Careers:</b> Graduates could be employed at nature reserves, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, educational institutions and museums, pest management, quarantine and inspection services, in biochemical and biotechnology industries, in IT-related fields and in the corporate sector. Graduates with expertise in entomology are particularly highly sought after in the agricultural sector as insect management specialists or researchers.								
<b>BSc (Genetics)</b> <sup>3</sup> <b>BSc (Human Genetics)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Genetics) and BSc (Human Genetics) are any of the programmes listed in the biological sciences programmes.								
<b>Careers:</b> Graduates generally choose to work as molecular biologists, medical or clinical geneticists, cytogeneticists, biotechnologists, agricultural scientists, molecular ecologists, forensic scientists, genetic counsellors, bioinformaticists and computational analysts, veterinary scientists, teachers or lecturers at various institutions, and in bioscience-related industries. If students combine genetics with additional qualifications such as law, they will be equipped for successful careers in, for example, patent law, pharmaceutical sales and marketing, project management, computer programming (natural computation) and science journalism. Note that the level of training and qualification plays an important role in determining the type of work in which a qualified geneticist can become involved.								
<b>BSc (Human Physiology)</b> <sup>3</sup> <b>BSc (Human Physiology, Genetics and Psychology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Human Physiology) and BSc (Human Physiology, Genetics and Psychology) are any of the programmes listed in the biological sciences programmes.								
<b>Careers:</b> Research is performed in cooperation with medical teams in private and government research laboratories (such as the CSIR and the MRC), the South African Bureau of Standards (SABS), pharmaceutical firms, universities, veterinary and industrial institutions and state departments (eg the Department of Health). Physiologists are also found in various other fields, including education (teachers, lecturers and instructors), sports physiology, biostatistics, bioengineering, industrial hygiene, journalism and 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 Department of Genetics and the Department of Psychology (in the Faculty of Humanities).								
<b>BSc (Medical Sciences)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Medical Sciences) are any of the programmes listed in the biological sciences programmes.								
<b>Careers:</b> Postgraduate studies are highly recommended. Honours, master's and doctoral degrees can be obtained in any of the subdivisions of anatomy: neuro-anatomy, clinical anatomy, cell biology, physical and forensic anthropology, histology and embryology. Students who obtain this degree can also continue with their studies to obtain postgraduate degrees in physiology, genetics and pharmacology.								
Career opportunities include research in any of the subdivisions of anatomy, in academia, in forensic science and in the health science industry. Other careers that can be considered are in the sports sciences, virology, chemical pathology, immunology, health administration or ergonomics. Technical careers are also possible, for example in the Anatomy or Physiology departments at universities.								
Only 72 places are available in the first year of BSc (Medical Sciences). Students who apply for BSc (Medical Sciences) as their first choice before 30 September, and who meet the minimum admission requirements, will be admitted until the places have been filled.								
<b>BSc (Microbiology)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Microbiology) are any of the programmes listed in the biological or agricultural and food sciences programmes.								
<b>Careers:</b> Microbiologists can pursue a variety of careers involving activities ranging from practical application to basic research. Career opportunities are available in the food, dairy, beer, wine, baker's yeast and fermentation industries, and at mines where they will be involved in corrosion control. Graduates can also follow careers as medical or veterinary microbiologists, researchers at organisations such as the CSIR, MRC or ARC, or lecturers and researchers at academic institutions.								
<b>BSc (Plant Science)</b> <sup>3</sup> [3 years]	5	C	5	C	5	C	32	
The suggested second-choice programmes for BSc (Plant Science) are any of the programmes listed in the biological or agricultural and food sciences programmes.								
<b>Careers:</b> Careers range from working in a laboratory to studying plants in their natural environments. Graduates could be employed at biotechnology and pharmaceutical firms, South African National Parks, private ecological companies and research institutions such as the CSIR, ARC and the South African National Biodiversity Institute (SANBI).								
Candidates who do not comply with the minimum admission requirements for the abovementioned Biological Sciences programmes may be considered for admission to the BSc - Extended programme - Biological and Agricultural Sciences, which requires an additional year of study.								
<b>BSc - Extended programme - Biological and Agricultural Sciences</b> <sup>3</sup>	4	D	4	D	4	D	26	
This programme is not available for students who meet all the requirements for the corresponding mainstream programme. <b>Note:</b> Only students who apply in the final year of their NSC or equivalent qualification, will be considered for admission into any of the BSc - Extended programmes.								

\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
AGRICULTURAL AND FOOD SCIENCES	English Home Language or English First Additional Language		Mathematics		Physical Sciences		APS
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BSc (Culinary Science)*<sup>3</sup></b> [4 years] *Replaced BSc (Food Management) in 2017	5	C	5	C	5	C	32
The suggested second-choice programmes for BSc (Culinary Science) are BConSci (Hospitality Management), BSc (Food Science) and BSc (Nutrition).							
<b>Careers:</b> Graduates can be employed as culinary scientists, culinologists, sensory analysts, food researchers, food product developers, food safety and quality assurance managers, and food service managers.							
<b>BSc (Food Science)<sup>3</sup></b> [3 years]	5	C	5	C	5	C	32
The suggested second-choice programmes for BSc (Food Science) are BSc (Nutrition) and BSc (Biological Sciences).							
<b>Careers:</b> Food scientists with highly marketable training and professional skills work as food risk investigators, quality and safety assurance managers, food chemists, food microbiologists and biotechnologists, packaging and shelf-life specialists, safety auditors, product and process development managers, technical sales and marketing advisors, sensory scientists or food bio-scientists (for example brewers or flavourists) in the food, agro-processing and related industries. The work environments of food scientists include laboratories, food production sites, business premises (retail and wholesale), training areas, government institutions and research organisations. Food scientists also work in industries and companies that manufacture and supply materials (for example packaging and food additives, such as colourants and flavourants) to the food industry, or have secondary involvement in food production and sales.							
<b>BSc (Nutrition)<sup>3</sup></b> [4 years]	5	C	5	C	5	C	32
The suggested second-choice programmes for BSc (Nutrition) are BSc (Food Science), BSc (Biochemistry), BSc (Microbiology) and BSc (Biological Sciences).							
BSc (Nutrition) is an interfaculty degree programme, jointly presented by Food Science (Faculty of Natural and Agricultural Sciences) and Human Nutrition (Faculty of Health Sciences).							
<b>Careers:</b> The need for graduates with training in nutrition is driven by the worldwide recognition of the fact that food does not only meet basic nutritional needs, but also plays a key role in the promotion and maintenance of long-term good health. Career opportunities exist in food or related industries (such as pharmaceutical companies), government departments, international organisations (such as the United Nations Food and Agricultural Organisation (FAO) and the World Health Organisation (WHO)) and research organisations, and as account managers and advisors in the food, health and consumer sectors.							
<b>BScAgric (Agricultural Economics and Agribusiness Management)<sup>3</sup></b> [4 years]	5	C	5	C	5	C	32
The suggested second-choice programme for BScAgric (Agricultural Economics and Agribusiness Management) is BCom (Agribusiness Management).							
<b>Careers:</b> Agricultural economists are involved in many different areas of the economy. Their roles in the economy include: analysing and understanding consumer behaviour in terms of people's wants, needs and willingness to pay for food and clothing; conducting research in environmental economics to assist governments and businesses in ensuring the sustainable use of scarce resources such as water; training of smallholder farmers by providing extension services; trading of financial instruments and agricultural commodities on global and local stock markets; advising clients in the agricultural sector on how to manage their finances and risks; advising government on how to ensure that there will be enough food for all South Africans; and conducting research to ensure the sustainable and profitable supply of food and clothing across the various supply chains. Employment opportunities for agricultural economists include employment in the government, commercial banks, multinational agribusiness companies, former cooperatives, trading houses, food processors and manufacturers, and research councils. An agricultural economist is, therefore someone who is interested in the mathematics, business, science, and human side of agriculture.							
<b>BScAgric (Animal Science)<sup>3</sup></b> [4 years]	5	C	5	C	5	C	32
The suggested second-choice programmes for BScAgric (Animal Science) are BSc (Biological Sciences) and BSc (Zoology).							
<b>Careers:</b> Animal science is focused on the application of the scientific aspects of animal production and the quality control of products to ensure consumer satisfaction and careers in this field make an important contribution to agriculture in South Africa. Based on the most recent research and the needs of both animals and humans, animal science focuses on the entire livestock production value chain, from conception to consumption. There are numerous career opportunities for animal and wildlife scientists in research, commercial farming and the public sector, and for professionals in the animal science industry. Animal scientists can work on different levels in these sectors, eg as researchers or consultants on animal nutrition or breeding, technical representatives, managers of intensive and extensive animal production systems and policymakers. The BScAgric (Animal Science) degree is acknowledged as a professional qualification by SACNSP in terms of Act 106 of 1993, and is internationally recognised, which means that graduates can register as professional animal scientists.							

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
AGRICULTURAL AND FOOD SCIENCES	English Home Language or English First Additional Language		Mathematics		Physical Sciences		APS
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BScAgric (Plant Pathology)<sup>3</sup></b> [4 years]	5	C	5	C	5	C	32
The suggested second-choice programmes for BScAgric (Plant Pathology) are any of the programmes listed in the biological or agricultural and food sciences programmes.							
<b>Careers:</b> Graduates could be employed as seed cultivators, farmers, researchers, lecturers or consultants.							
<b>BScAgric (Applied Plant and Soil Sciences)<sup>3</sup></b> [4 years]	5	C	5	C	5	C	32
The suggested second-choice programmes for BScAgric (Applied Plant and Soil Sciences) are any of the programmes listed in the biological or agricultural and food sciences programmes.							
<b>Careers:</b> Graduates could be employed as teachers and lecturers at schools and academic institutions, as well as researchers and managers at various public and private institutions:							
<ul style="list-style-type: none"> <li>Public sector: The ARC, Department of Water and Sanitation, Department of Environmental Affairs, Department of Tourism, Department of Agriculture, Forestry and Fisheries, Department of Mineral Resources, Department of Energy, the CSIR, provincial agriculture and nature conservation departments, SANBI, municipalities, South African National Parks, national farming and food production agencies</li> <li>Private sector: Companies involved in seed, fertiliser and plant protection research and development, environmental planning and management, nurseries, vegetable, fruit and ornamental cut-flower production and irrigation</li> <li>Extension services involving knowledge transfer: Nature conservation, national and provincial departments of agriculture and the environment, environmental management and rehabilitation, nurseries, crop, turf grass and weed management, private companies servicing field crops, vegetables, medicinal and aromatic plants, fruit, ornamental and cut-flower production</li> <li>Entrepreneurial: Consultants in crop, pasture, vegetable, medicinal and aromatic plants, ornamental and cut-flower production systems and landscaping enterprises, managing own farms and nurseries for extensive (field) or intensive (tunnel/greenhouse) production systems involving various crops, and managing companies specialising in irrigation, reclamation and soil conservation</li> </ul>							
Candidates who do not comply with the minimum admission requirements for the abovementioned Agricultural and Food Sciences programmes may be considered for admission to the BSc - Extended programme - Biological and Agricultural Sciences, which requires an additional year of study.							
<b>BSc - Extended programme - Biological and Agricultural Sciences<sup>3</sup></b>	4	D	4	D	4	D	26
This programme is not available for students who meet all the requirements for the corresponding mainstream programme. <b>Note:</b> Only students who apply in the final year of their NSC or equivalent qualification will be considered for admission into any of the BSc - Extended programmes.							

Programmes	Minimum requirements for 2021*						APS
	Achievement level						
CONSUMER SCIENCE	English Home Language or English First Additional Language		Mathematics		Physical Sciences		APS
	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
<b>BConSci (Clothing Retail Management)<sup>3</sup></b> [4 years]	5	C	4	D			28
The suggested second-choice programme for BConSci (Clothing Retail Management) is BConSci (Food Retail Management).							
<b>Careers:</b> Graduates can be employed in retail management as brand managers, clothing buyers and planners, fashion designers, fashion marketers, fashion product developers, quality controllers and assurance managers, store managers, image consultants, textile technologists, visual merchandisers and pattern technologists, or can become entrepreneurs.							
<b>BConSci (Food Retail Management)<sup>3</sup></b> [4 years]	5	C	4	D			28
The suggested second-choice programme for BConSci (Food Retail Management) is BConSci (Hospitality Management).							
<b>Careers:</b> Graduates can be employed as brand managers, sales managers or store managers, food and beverage buyers and planners, food stylists, food journalists, food product marketers, visual merchandisers and consumer consultants, or can become entrepreneurs.							
<b>BConSci (Hospitality Management)<sup>3</sup></b> [4 years]	5	C	4	D			28
The suggested second-choice programme for BConSci (Hospitality Management) is BConSci (Food Retail Management).							
<b>Careers:</b> Graduates can be employed as food and beverage managers, food service managers, culinary specialists, events coordinators, entrepreneurs, food product and menu developers, food journalists, food safety and quality assurance managers, and food stylists.							



\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.

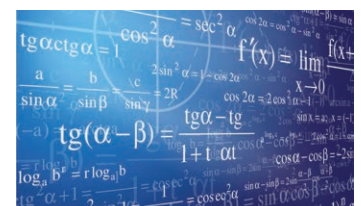


Programmes	Minimum requirements for 2021*						
	Achievement level						APS
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
PHYSICAL SCIENCES	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	APS
<b>BSc (Chemistry) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programmes for BSc (Chemistry) are BSc (Biochemistry) and the BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] (with elective modules in Physical Sciences or Life Sciences).							
<p><b>Careers:</b> Graduates are employed in most technology-based institutions and work in laboratory environments that form part of industrial, research or academic institutions. A chemist must be able to participate in teamwork in a multidisciplinary environment and in a wide variety of enterprises in both the private and public sectors. It is important to note that the type of work available to a graduate in chemistry depends on the level of the qualification obtained. Advanced qualifications will eventually lead to positions in research and/or production management and require management and financial planning skills. Many career opportunities exist in the fields of education, research, journalism, environmental protection, food and beverages, energy, water, health, sports, pharmaceuticals and cosmetics, geology, mining and law enforcement. These include the well-known professions of synthetic chemist, materials scientist, chemical pathologist, forensic chemist, analytical chemist, drug analyst, patent lawyer, environmental chemist, geochemist, food chemist, polymer chemist and soil chemist.</p>							
<b>BSc (Physics) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programmes for BSc (Physics) are BSc (Mathematics) and BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] (with elective modules in Physical Sciences or Life Sciences).							
<p><b>Careers:</b> Graduates could be employed as 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, for example at the CSIR or Element Six, science advisors for non-governmental organisations, industry or government, radiation scientists, medical scientists and biophysicists, atmospheric scientists and climatologists, developers of renewable energy sources, geophysicists, innovators and entrepreneurs, and computational scientists. International collaboration also takes place with experts from abroad.</p>							
<b>BSc (Geography and Environmental Sciences) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programme for BSc (Geography and Environmental Sciences) is BSc (Meteorology).							
<p><b>Note:</b> This programme will replace the BSc (Geography) and the BSc (Environmental Sciences) programmes from 2021.</p> <p><b>Careers:</b> There are three main career fields in geography: teaching, research and the practical application of geographical knowledge and skills. Geographers can focus on environmental management, urban issues such as squatting, regional and rural development, or environmental issues, including pollution and the destruction of ecosystems through activities such as mining, agriculture and tourism. Geographers in the private sector are generally employed by real estate, planning, architecture and engineering firms, banks, tourism organisations, environmental conservation bodies and industry. Government departments involved in forestry, water and land affairs, the environment, tourism and education employ geography graduates. Parastatal organisations such as the SABS and the CSIR offer career opportunities in the various specialised fields related to the earth and environmental sciences. Many geographers are self-employed. They are mainly involved in areas such as marketing, planning, development, tourism, cartography, geographic information systems (GIS), remote sensing, environmental analysis and environmental auditing. Graduates can also pursue academic careers. Graduates could also be employed as environmental consultants, air quality managers, environmental impact analysts, environmental protection agents, hazardous materials specialists, public health educators, researchers, water quality specialists, natural resource managers, risk managers, environmental educators, wetlands scientists, wildlife conservatists, environmental planners and analysts, wastewater treatment experts, programme and project managers, natural resources experts and researchers.</p>							
<b>BSc (Geoinformatics) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programme for BSc (Geoinformatics) is BSc (Geography and Environmental Sciences).							
<p><b>Careers:</b> Graduates are employed in areas such as agriculture, mineral exploration, engineering, forestry, water resource management, weather forecasting, environmental impact assessment (EIA), land-use planning, land development, rural community development, transport planning, tourism, market research, crime prevention, vehicle tracking, cartography, GIS technology, environmental planning and analysis, and disaster and environmental management. Graduates can apply for professional registration as GIS technologists with the South African Geomatics Council (SAGC).</p>							
<b>BSc (Geology) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programmes for BSc (Geology) are BSc (Engineering and Environmental Geology), BSc (Physics) and BScAgric (Applied Plant and Soil Sciences).							
<p><b>Careers:</b> Large international mining companies are major employers of geologists and other geoscientists in research, exploration and mining projects. However, employment is increasingly to be found in smaller, entrepreneurial firms (Juniors). Interesting careers are also offered by the Council for Geosciences, the CSIR, and the Council for Mineral Technology (MINTeK), the Department of Water and Sanitation, and at museums, engineering firms and consulting companies. Graduates may even operate as self-employed consultants in their own firms. Laboratory specialists, for example mineralogists, identify and examine minerals using sophisticated instruments and analytical equipment. Environmental and engineering geologists study the interaction between human activities and the geological environment, such as the pollution of soil and groundwater. They investigate geological structures and soil, and rock properties at construction sites, for example dams, tunnels and mines, in order to provide valuable information prior to construction. They also locate and evaluate suitable construction materials. The task of the hydrogeologist is to look for groundwater and monitor the responsible exploitation of that water.</p>							
<b>BSc (Meteorology) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programme for BSc (Meteorology) is BSc (Geography and Environmental Sciences).							
<p><b>Careers:</b> Meteorologists are employed by institutions involved in the study, interpretation and prediction of weather and climate-related phenomena. The South African Weather Service (SAWS), the CSIR, some universities, agricultural institutions and general industries employ meteorologists who practise mainly as specialists in the following areas:</p> <ul style="list-style-type: none"> <li><b>Researchers:</b> They research all aspects of the weather and climate in order to improve man's 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 on climate change is receiving increasing attention.</li> <li><b>Weather forecasters:</b> It is the duty of the weather forecaster to analyse data and predict the weather by using models that are run on supercomputers. Weather forecasts are issued on different time scales, from very short-range forecasting to forecasts that are valid for months ahead, as well as seasonal forecasts. Private positions for people with this qualification include presenting the weather forecast on television.</li> <li><b>Climatologists:</b> They manage important data sets that contain large volumes of information gathered by the SAWS and other organisations.</li> <li><b>Consultants:</b> Some meteorologists who work as consultants in the private sector and at universities provide specialised research services.</li> <li><b>Lecturers:</b> A few academic positions for meteorologists and climatologists are available at South African universities. They ensure that the training of meteorologists meets international standards.</li> </ul>							

Programmes	Minimum requirements for 2021*						
	Achievement level						APS
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
PHYSICAL SCIENCES	NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	APS
<b>BSc (Engineering and Environmental Geology) <sup>3</sup></b> [3 years]	5	C	5	C	5	C	34
The suggested second-choice programme for BSc (Engineering and Environmental Geology) is BSc (Geology).							
<p><b>Careers:</b> Graduates could be employed as geologists, mineralogists, extraction metallurgists, economic geologists, geochemists, environmental and engineering geologists, geohydrologists, laboratory specialists and consultants.</p> <p>Candidates, who do not comply with the minimum admission requirements for the abovementioned Physical Sciences programmes may be considered for admission to the BSc - Extended programme - Physical Sciences, which requires an additional year of study.</p>							
<b>BSc - Extended programme - Physical Sciences <sup>3</sup></b>	4	D	4	D	4	D	28
This programme is not available for students who meet all the requirements for the corresponding mainstream programme. <b>Note:</b> Only students who apply in the final year of their NSC or equivalent qualification will be considered for admission into any of the BSc - Extended programmes.							

Programmes	Minimum requirements for 2021*						
	Achievement level						APS
	English Home Language or English First Additional Language		Mathematics				
MATHEMATICAL SCIENCES	NSC/IEB	AS Level	NSC/IEB	AS Level			APS
<b>BSc (Actuarial and Financial Mathematics) <sup>3</sup></b> [3 years]	5	C	7	A			36
The suggested second-choice programme for BSc (Actuarial and Financial Mathematics) is BSc (Mathematical Statistics).							
<p><b>Careers:</b> Actuarial and financial mathematics is a popular field, with career opportunities in the business market and at investment institutions such as banks and insurance companies. Mathematical skills are essential in portfolio management and the modelling of financial risk. This programme prepares students for professional careers as actuaries or financial engineers. The activities of actuaries or actuarial technicians include long-term capital projects, designing the benefits of medical schemes, pension fund management, 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 insurers' outstanding claims. Financial engineers can be employed by banks 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.</p>							
<b>BSc (Mathematics) <sup>3</sup></b> <b>BSc (Applied Mathematics) <sup>3</sup></b> [3 years]	5	C	6	B			34
The suggested second-choice programme for BSc (Mathematics) is BSc (Physics) and for BSc (Applied Mathematics) are BSc (Mathematics) and the BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] (with elective modules in Physical Sciences or Life Sciences).							
<p><b>Careers:</b> Graduates in mathematics and applied mathematics are employed by research institutions, educational bodies (universities and schools), the public sector (government and medical institutions) and the private sector (engineering companies, financial institutions and the computer industry). These graduates' training in abstract, analytical and computational thinking provides them with the background required 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.</p>							
<b>BSc (Mathematical Statistics) <sup>3</sup></b> [3 years]	5	C	6	B			34
The suggested second-choice programmes for BSc (Mathematical Statistics) are BSc (Physics) and the BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] (with elective modules in Physical Sciences or Life Sciences).							
<p><b>Careers:</b> The services of statisticians are needed by people in many professions, such as actuaries, economists, biologists, engineers and marketing executives. Some examples of career opportunities are:</p> <ul style="list-style-type: none"> <li>Google Analytics use statistics to track internet users to generate leads for their recommended engines.</li> <li>Movement information captured by cell phones is used by statistical predictive models to predict traffic congestion and suggest faster routes.</li> <li>Statisticians make use of statistical methodologies to detect fraud, assist with credit-related portfolios and forecast financial economic trends.</li> <li>Retail companies study customer satisfaction and customer experience by using statistical models.</li> <li>Spatial statistics can provide useful information about climate change, crime hotspots and rhino-poaching geographical maps.</li> <li>Statisticians advise animal scientists on factors affecting animal nutrition and genetic breeding plans.</li> <li>Government employs statisticians to understand how population demographics, health risks and other factors influence sustainable development programmes.</li> </ul>							

Candidates, who do not comply with the minimum admission requirements for the abovementioned Mathematical Sciences programmes may be considered for admission to the BSc - Extended programme - Mathematical Sciences, which requires an additional year of study.							
<b>BSc - Extended programme - Mathematical Sciences <sup>3</sup></b>	4	D	5	C			28
<p><b>BSc (Actuarial and Financial Mathematics)</b> Admissions from the BSc - Extended programme to the BSc (Actuarial and Financial Mathematics) programme will be considered if students have passed all their first year modules with an average mark of at least 60%, passed IAS 111; and achieved a minimum mark of 60% in WTW 143 and WTW 153.</p> <p>This programme is not available for students who meet all the requirements for the corresponding mainstream programme. <b>Note:</b> Only students who apply in the final year of their NSC or equivalent qualification will be considered for admission into any of the BSc - Extended programmes.</p>							



\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.



## Faculty of Health Sciences

### Important information on undergraduate programmes for 2021

- 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 National Senior Certificate (NSC) 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; a candidate who is a graduate of another Faculty at the University of Pretoria; and a candidate who is currently studying at a university.
- Admission to Health Sciences programmes is subject to a selection process.
- Grade 11 final examination results and the National Benchmark Test (NBT) results will be used for the conditional selection of prospective students.
- For selection purposes, the sum of the results in six subjects, including English, Mathematics and Physical Sciences, is calculated.
- Life Orientation is excluded in the calculation of the Admission Point Score (APS).
- 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.
- Candidates should note that their conditional admission will be revoked if their APS drops by more than two points in their final school examination results.
- PLEASE NOTE that compliance with the minimum admission requirements does not guarantee admission to any programme in this Faculty.
- Selection queries may be directed to healthapplications@up.ac.za.
- A student who is made an offer but does not accept it cannot defer the offer and must reapply to be considered in the following year.

University of Pretoria website [www.up.ac.za/health](http://www.up.ac.za/health)  
National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)

Programmes	Minimum requirements for 2021*							APS
	Achievement level						Physical Sciences	
	English Home Language or English First Additional Language		Mathematics		Physical Sciences			
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level			
<b>SCHOOL OF DENTISTRY</b>								
<b>BChD – Bachelor of Dental Surgery</b> <sup>1</sup> [5 years]	5	C	6	B	5	C		35
The suggested second-choice programme for BChD is BSc (Biological Sciences).								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: Dentists, specialists, academics and researchers								
<b>BOH – Bachelor of Oral Hygiene</b> <sup>1</sup> [3 years]	4	D	4	D	4	D		25
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Career: Oral hygienists								
<b>SCHOOL OF HEALTHCARE SCIENCES</b>								
<b>BDietetics – Bachelor of Dietetics</b> <sup>1</sup> [4 years]	4	D	5	C	5	C		28
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Career: Dieticians								
<b>BNurs – Bachelor of Nursing Science</b> <sup>1</sup> [4 years]	4	D	4	D	Life Sciences (not Physical Sciences)			28
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results, the NBT and an interview. Careers: General nursing and midwifery								
<b>BOT – Bachelor of Occupational Therapy</b> <sup>1</sup> [4 years]	4	D	4	D	4	D		30
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: Occupational therapists, academics and researchers								
<b>BPhysio – Bachelor of Physiotherapy</b> <sup>1</sup> [4 years]	4	D	4	D	4	D		30
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: Physiotherapists, academics and researchers								
<b>BRad (Diagnosics)</b> <sup>1</sup> [3 years]	4	D	4	D	4	D		30
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: Radiographers, academics and researchers								
<b>SCHOOL OF MEDICINE</b>								
<b>BCMP – Bachelor of Clinical Medical Practice</b> <sup>1</sup> [3 years]	4	D	4	D	Physical Sciences or Life Sciences			28
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.								
Selection is based on a candidates' final Grade 11 examination results and the Biographical Information Form. Careers: Clinical associates, academics and researchers								

\* Cambridge A level and International Baccalaureate (IB) HL candidates, please read the Note in the shaded block at the top of page 5.



Programmes	Minimum requirements for 2021*						APS
	Achievement level						
	English Home Language or English First Additional Language		Mathematics		Physical Sciences		
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level		
<b>MBChB – Bachelor of Medicine and Surgery</b> <sup>1</sup> [6 years]	5	C	6	B	5	C	35
The suggested second-choice programme for MBChB is BSc (Biological Sciences). A limited number of spaces are available for selection after the first semester.							
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: General medical practitioners, specialists (after postgraduate training)							
<b>BSportSci – Bachelor of Sports Science</b> <sup>1</sup> [3 years]	4	D	4	D	Physical Sciences or Life Sciences		30
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.							
Selection is based on a candidates' final Grade 11 examination results and the NBT. Careers: This programme prepares students to work competently in the health, wellness and sporting environment. It is a prerequisite for admission to the BScHons programme in Sports Science or Biokinetics.							

<b>BSc (Nutrition)</b>	BSc (Nutrition) is an interfaculty degree programme, jointly presented by Food Science (Faculty of Natural and Agricultural Sciences) and Human Nutrition (Faculty of Health Sciences).
<b>BA (Audiology)</b>	BA (Audiology) and BA (Speech-Language Pathology) reside in the Faculty of Humanities.
<b>BA (Speech-Language Pathology)</b>	

## Faculty of Theology and Religion

### Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who have a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution; and candidates who are graduates 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](http://www.up.ac.za/theology)  
National Benchmark Test website [www.nbt.ac.za](http://www.nbt.ac.za)

Programmes	Minimum requirements for 2021*				APS
	Achievement level				
	English Home Language or English First Additional Language		Physical Sciences		
NSC/IEB	AS Level	NSC/IEB	AS Level		
<b>BDiv – Bachelor of Divinity</b> <sup>3</sup> (for admission to MDiv studies) [4 years]	4	D			28 (26-27 admission based on the NBT)
The suggested second-choice programmes for BDiv – Bachelor of Divinity are BTh – Bachelor of Theology and DipTh – Diploma in Theology.					
Careers: Ministers, pastors, priests, preachers in certain denominations, missionaries and youth counsellors. Other possibilities include ethics consultants to businesses. Theological studies can be enriching for people in various other vocations. Prospective students who are interested in ordained ministry should discuss their intention to register for this programme with their church leadership.					
<b>BTh – Bachelor of Theology</b> <sup>3</sup> [3 years]	4	D			28 (26-27 admission based on the NBT)
The suggested second-choice programme for BTh – Bachelor of Theology is DipTh – Diploma in Theology.					
Careers: Ministers, pastors, priests, preachers in certain denominations, missionaries and youth counsellors. Other possibilities include ethics consultants to businesses. Theological studies can be enriching for people in various other vocations. Prospective students who are interested in ordained ministry should discuss their intention to register for this programme with their church leadership.					
<b>DipTh – Diploma in Theology</b> <sup>3</sup> [3 years]	3	E			24 (22-23 admission based on the NBT)
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.					
Careers: Ministers, pastors, priests, lay preachers in certain denominations, missionaries and youth counsellors. Candidates should consult their church leadership on which programme would best suit their aims. The Diploma in Theology is intended for candidates who have completed Grade 12 (or equivalent) but without the required university admission.					

\* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.

# Catch your dream boat to success with JuniorTukkie (JT)

## JT helps you to:

- make the leap from high school to university with ease;
- improve your marks in Mathematics and Physical Sciences;
- make responsible study and career choices; and
- be prepared for the demands of your chosen programme.

## Winter and Summer School

Grade 12 Winter School (Mathematics and Physical Sciences):  
Tel +27 (0)12 420 6606 | Email themba.maluleka@up.ac.za

Grade 11 Summer School (Mathematics and Physical Sciences):  
Tel +27 (0)12 420 6606 | Email themba.maluleka@up.ac.za

## Learners from Grade 9 to 12 are welcome to join JuniorTukkie

- Download the web-based JT App: juniortukkieapp.co.za
- On the JT App, go to: JuniorTukkie > Become a JuniorTukkie
- Complete the JT Membership Form

## Once you are a JuniorTukkie member, you will be invited to apply for attendance\* of any of the following events:

- Preparation Conference for Grade 12 learners
- Faculty information sessions for Grade 11 to 12 learners and their parents
- Information sessions for Grades 9, 10 and 11 learners and their parents
- The 'Walk-the-Talk with UP' day for Grade 10 learners and their parents
- Welcome function for new first-year UP students (JT members).

\*Terms and conditions apply for each of the above events.



## Contact JuniorTukkie

**Tel** +27 (0)12 420 6606

**Email** junior.tukkie@up.ac.za

**Website** www.up.ac.za/juniortukkie

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