

# 2023 Undergraduate programme information



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

National Senior Certificate (NSC) and  
Independent Examination Board (IEB)

**Make today matter**

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**Note:** The information reflected in this brochure is subject to changes in regulations relating to COVID-19. Amendments will reflect in the digital version of this brochure, which can be downloaded from [www.up.ac.za/programmes](http://www.up.ac.za/programmes) > Undergraduate > Admission information.

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## 1. Become a proud UP student

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 professional 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	<b>ABSA</b>	<b>Standard Bank</b>
Branch	Hatfield (Branch code: 632005)	Hatfield (Branch code: 011545)
Swift code	ABSAZAJJCPT	SBZAJJ
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 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%

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**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 affected 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.



- Improve your marks.
- Grow personally and emotionally.
- Be well-prepared to apply for university studies.
- WizeUP!



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STEP UP**

**Register at:** juniortukkie.online  
**Email:** studentsupport@juniortukkie.online | **Cell:** 083 286 4996



## Special package offer to academic achievers (new first-year students in 2023)

**Note:** Amounts indicated in the table below are for 2022 and may be adjusted for 2023.

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
85%–100%	<b>Guaranteed</b> admission to your first or second choice non-selection programme (not applicable to selection programmes) if your application is received not later than <b>1 May</b> of the year preceding commencement of studies.	85%–100%	<b>Guaranteed</b> placement in a UP residence if your application is received not later than <b>1 May</b> 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 First-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 before registration at UP will not be considered for Fly@UP Assist First-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
  - Additional or Alpha 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/IEB or equivalent report, please submit your official music report to your faculty's student administration offices, before 28 January for consideration.)
- The awards are finalised based on 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.
- Awards are finalised after the close (end) of the official registration period and in accordance with the enrolled study programme at the date when the awards are processed. Any changes after this period will not be taken into consideration. If the recipient changes the study programme prior to closure of the registration period and within the year in which the award is made, the award value is determined in accordance with the enrolled study programme as at the date of the processing of the award.

**Note:** Be sure to read about all the various funding opportunities at [www.up.ac.za/article/2749200/fees-and-funding](http://www.up.ac.za/article/2749200/fees-and-funding).

### Closing dates

The closing date for all selection programmes is **30 June 2022**. The University of Pretoria has decided not to set a specific closing date for applications to non-selection programmes for 2023. Applications will close when the available study spaces are filled (**close on availability of space**). Once the available number of study places for a specific programme are filled, no further applications for that particular programme will be considered. All applicants are therefore strongly advised and encouraged to submit their applications as soon as possible after 1 April 2022 and to check the application site (UP Student Portal) regularly.

### Helpful websites/links

- [www.up.ac.za/programmes](http://www.up.ac.za/programmes) > Undergraduate
- [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.gostudy.net/up](http://www.gostudy.net/up)
- [juniortukkie.online](http://juniortukkie.online)
- [juniortukkieapp.co.za](http://juniortukkieapp.co.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. Apply at UP

Apply at [www.up.ac.za/apply](http://www.up.ac.za/apply) from 1 April in the year preceding your studies. Before you start with your online application process, ensure that you have the following on hand as you will be required to upload these documents with your online application.

**Note:** Certification of these documents is NOT required. The documents should be scanned separately. Ensure that you label these documents correctly and have no special characters in the file names and that the files are not password-protected.

- A scanned (PDF) copy of your final Grade 11 examination report indicating your promotion mark;
- A scanned (PDF) copy of your ID or your birth certificate; and
- A scanned (PDF) copy of your proof of payment of the application fee, if you paid at a bank.

## 3. Online application process for studies in 2023

Please read through all the steps below to determine which actions are relevant for your application to study at the University of Pretoria in 2023. Citizens from countries other than South Africa\* should also take note of the steps below. All prospective students must read the important information on page 5 of this brochure as well and take note of the portions of text above each Faculty table.

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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 Online Application Form 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 [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) > Undergraduate > Admission information.

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### Tuition and residence fees

For more information on tuition and residence fees, go to [www.up.ac.za/article/2749200/fees-and-funding](http://www.up.ac.za/article/2749200/fees-and-funding).

- Fee quotation:** Please go to [www.up.ac.za/student-fees](http://www.up.ac.za/student-fees) 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 offer rests with the University.
- How and where to pay:** We encourage you to make EFT or Credit card payments. Please allow at least 5 working days for the payment to reflect on your student account.
- UP banking details:** See page 1.

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

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### Apply to study at UP in 2023

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

- The closing date for all selection programmes is **30 June 2022**. The University of Pretoria has decided not to set a specific closing date for applications to non-selection programmes for 2023. Applications will close when the available study spaces are filled (**close on availability of space**). Once the available number of study places for a specific programme are filled, no further applications for that particular programme will be considered. All applicants are therefore strongly advised and encouraged to submit their applications as soon as possible after 1 April 2022 and to check the application site (UP Student Portal) regularly.
- Before you start to complete the Online Application, please watch an online application demonstration at [www.up.ac.za/juniortukkie](http://www.up.ac.za/juniortukkie) > Study at UP > UP application process.
- Ensure that the email address that you indicate on your Online Application is correct as your temporary password and Application ID (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 UP 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. Applications open on 1 April 2022. The earlier you apply the better your chances.
- Preference is given to students with an academic average of 70% and above.
- Academic achievers will receive guaranteed residence placement if they meet the following criteria:
  - applied before 1 May in the year preceding studies;
  - obtained a minimum average of 85% in the examination with which the student applies to study at UP; and
  - received conditional admission to a study 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

\*Applicants who are not South African citizens.

## 3. Online application process for studies in 2023

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### National Benchmark Test (NBT)

The National Benchmark Test (NBT) is not required for any undergraduate programme in 2023.

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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 u23123456.

Please watch a video demonstration on: 'How to access the UP Student Portal' at [www.up.ac.za/juniortukkie](http://www.up.ac.za/juniortukkie) > Study at UP > UP application process.

Go to [www1.up.ac.za](http://www1.up.ac.za) and click on the "New user" link.

- 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. Select any three of these challenge questions and then click on the "Submit" button. Enter your answer on the three challenge questions you chose and click on 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.
- For detailed information about the VSVAF and VNVAF, please refer to the Faculty of Veterinary Science undergraduate brochure at [www.up.ac.za/programmes](http://www.up.ac.za/programmes) > Undergraduate > Faculty brochures.
- 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.
- Due to COVID-19 restrictions, the following arrangements for the submission of the contracts have been made:
  - We have a contract drop-off box at Security at the following entrances to the Hatfield Campus: Prospect Street, Roper Street and University Road, where your completed and signed original contract can be dropped off.
  - You can also post your contract to the Student Service Centre, University of Pretoria, Private Bag X20, Hatfield, 0028.
  - Or you can courier your contract to University of Pretoria (Contracts), University Road entrance, Hatfield, Pretoria, 0083.
- The University of Pretoria does not accept faxed, scanned or emailed contracts.
- Before you start to complete the UP Student Contract, please watch a video demonstration on 'How to complete the UP Student Contract' at [www.up.ac.za/juniortukkie](http://www.up.ac.za/juniortukkie) > Study at UP > UP application process.

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### Orientation and Registration 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 2022.
- Online Registration information will be available on [www.up.ac.za/online-registration](http://www.up.ac.za/online-registration) by the end of December 2022.

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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 awards) to students who qualify.
- Guaranteed admission to first- or second-choice non-selection programmes for prospective students with an academic average percentage of between 85% 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/student-funding](http://www.up.ac.za/student-funding) > Fly@UP Assist 1st Year Awards.**



## 4. Undergraduate programmes

### 4.1 Important information for prospective students for 2023

- The admission requirements and general information in this brochure apply to students who apply for admission to the University of Pretoria with a National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications.
- 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.
- Applicants with qualifications other than the abovementioned should refer to:
  - Brochure:** *Undergraduate Programme Information 2023: Qualifications other than the NSC and IEB*, available at [www.up.ac.za/programmes](http://www.up.ac.za/programmes) > Undergraduate > Admission information.
  - Brochure:** *Newcomers Guide 2022*, available at [www.up.ac.za/programmes](http://www.up.ac.za/programmes) > Undergraduate > Admission information.
  - Website:** [www.up.ac.za/international-cooperation-division](http://www.up.ac.za/international-cooperation-division).
- School of Tomorrow (SOT) and Accelerated Christian Education (ACE):** The University of Pretoria no longer accepts qualifications awarded by these institutions.
- General Education Development (GED):** South African GED graduates who graduated up to 2019 may be considered for admission provided they qualify for an exemption certificate issued by USAf and comply with university admission requirements, as well as faculty subject requirements. South African GED graduates who graduated after 2019 cannot be considered for admission to UP as the diploma is not accredited by USAf and will not be considered for exemption. Applicants from the USA who completed the GED may apply for a Foreign Conditional Exemption Certificate issued by USAf accompanied by their SAT/TOEFL/IELTS results.
- National Certificate (Vocational) (NCV) Level 4:** The University of Pretoria may consider NCV candidates, provided they meet the exemption for bachelor's status criteria and the programme requirements.
- Online application:** Apply from 1 April at [www.up.ac.za/apply](http://www.up.ac.za/apply). 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.

- National Benchmark Test (NBT):** The NBT is **not** an admission requirement for any study programme at the University of Pretoria in 2023.
- First- and second study choices:** 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.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional admission of prospective students.
- All modules will only be presented in English, as English is the language of tuition, communication and correspondence.
- Closing date information is indicated by means of a red footer number beside the programme name that refers to the footnote at the bottom of the page.



### Faculty of Education

- 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.
- As soon as candidates are admitted to the Bachelor of Education (BEd) degree, they will be informed that they must register online.
- A valid police clearance certificate is required to register for a BEd or a Postgraduate Certificate in Education (PGCE) programme in the Faculty of Education. In addition, all registered students will be required to complete Form 30 of part B of the National Child Protection Register in accordance with the Children's Act 38 of 2005.
- 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)

- Refer to the important information for prospective students in par 4.1.

Programmes	Minimum requirements for NSC and IEB for 2023	
	Achievement level	APS
	English Home Language or English First Additional Language	
<b>BEd (Foundation Phase Teaching) <sup>2</sup></b> [Grade R to Grade 3] [4 years]	4	28
The suggested second-choice programmes for BEd (Foundation Phase Teaching) [Grade R to Grade 3] are any other BEd programme.		
<b>Careers:</b> Teachers and training officials in pre-primary or primary schools		

Programmes	Minimum requirements for NSC and IEB for 2023	
	Achievement level	APS
	English Home Language or English First Additional Language	
<b>BEd (Intermediate Phase Teaching) <sup>2</sup></b> [Grades 4 to 6] [4 years]	4	28
The suggested second-choice programmes for BEd (Intermediate Phase Teaching) [Grades 4 to 6] are any other BEd programme.		
<b>Careers:</b> Teachers and training officials in primary schools		
<b>BEd (Senior Phase and Further Education and Training Teaching) <sup>2</sup></b> [Grades 7 to 12] [4 years]	4	28
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 the final NSC/IEB examination.		
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 the final NSC/IEB examination.		
The suggested second-choice programmes for BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12] are any other BEd programme.		
<b>Careers:</b> Teachers and training officials in primary or secondary schools		
<b>Higher Certificate in Sports Sciences <sup>1</sup></b> [1 year]	4	20
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .		
<b>Selection process:</b>		
<ul style="list-style-type: none"> <li>Applicants who indicate the Higher Certificate in Sports Sciences 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>Applicants who obtained Diploma Studies endorsement for the NSC or equivalent qualification, may be considered for admission to the BEd (Senior Phase and Further Education and Training Teaching) degree (09133031), with specialisation in the elective combination of Human Movement Studies and Sports Management, if they successfully complete the Higher Certificate in Sports Sciences with a cumulative weighted average of at least 60% (excluding JRC 150 Sports Practical) (for the contact programme).</li> </ul>		
<b>Careers:</b> Sports coaching, sports and exercise industry		

## Faculty of Economic and Management Sciences

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

Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		APS
	English Home Language or English First Additional Language	Mathematics	
<b>BCom (Accounting Sciences) <sup>2</sup></b> [3 years] 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	5	6	34
<b>BCom (Investment Management) <sup>2</sup></b> [3 years] 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	5	6	34
<b>BCom (Financial Sciences) <sup>2</sup></b> [3 years] The suggested second-choice programmes for BCom (Financial Sciences) are BCom and BCom – Extended programme. <b>Careers with a focus on:</b> ▪ <b>Business accounting:</b> Financial accountants, credit controllers, SAIPA (South African Institute of Professional Accountants) and ACCA (Association of Chartered Certified Accountants) ▪ <b>Financial management:</b> Management accountants, management consultants, financial advisors, cost accountants and financial managers ▪ <b>Taxation:</b> Tax advisors, tax auditors in public practice, tax policy designers, tax professionals, tax compliance managers, SARS auditors and tax risk managers ▪ <b>Internal auditing:</b> Internal auditors, risk officers, forensic auditors, IT auditors, performance auditors, environmental auditors, compliance officers, government auditors and governance auditors	5	5	32
<b>BCom (Econometrics) <sup>2</sup></b> [3 years] 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.	5	6	32
<b>BCom (Economics) <sup>2</sup></b> [3 years] 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.	5	5	32
<b>BCom (Law) <sup>2</sup></b> [3 years] 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	5	5	32
<b>BCom (Statistics and Data Science) <sup>2</sup></b> [3 years] 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	5	5	32
<b>BCom (Informatics) Focus area: Information Systems <sup>2</sup></b> [3 years] 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	5	5	30

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

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		APS
	English Home Language or English First Additional Language	Mathematics	
<b>BCom (Agribusiness Management) <sup>2</sup></b> [3 years] The suggested second-choice programmes for BCom (Agribusiness Management) are BCom and BCom – Extended programme. <b>Careers:</b> The degree offers diverse career choices. Opportunities exist in banking, finance and insurance; policy design and implementation; research and consultation; food processing and manufacturing; commodity trading on global and local stock markets; logistics and supply chain operations; and business management in agricultural companies, to name but a few.	5	5	30
<b>BCom <sup>2</sup></b> [3 years] 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 can compile their own curricula with a view to future work opportunities in all sectors.	5	4	30
<b>BCom (Business Management) <sup>2</sup></b> [3 years] 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.	5	4	30
<b>BCom (Supply Chain Management) <sup>2</sup></b> [3 years] 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.	5	4	30
<b>BCom (Marketing Management) <sup>2</sup></b> [3 years] 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	5	4	30
<b>BCom (Human Resource Management) <sup>2</sup></b> [3 years] 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.	5	4	30
<b>BCom – Extended programme <sup>2</sup></b> [4 years] For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> . <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.	4	3	26
<b>BAdmin (Public Management and International Relations) <sup>2</sup></b> [3 years] For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> . <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.	5	Mathematics 3 or Mathematical Literacy 4	28

**1 Closing date:** 30 June **2 Close on availability of space:** As soon as the number of places available for this programme are filled, it will be closed for further applications.



## Faculty of Engineering, Built Environment and Information Technology

- A valid qualification with admission to degree studies is required.
- Minimum subject and achievement requirements, as set out in the table 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 undergraduate minimum admission requirements table.
- Admission to ENGAGE in the School of Engineering will be determined by the NSC results, achievement levels of 5 for Mathematics, Physical Sciences and English, and an APS OF 30.
- Students may apply directly to be considered for the ENGAGE programme.

**Second-choice programme:** Should your Admission Point Score (APS) adhere to our entrance requirements for our engineering programmes, and you are not accepted for your first-choice programme, then please consider an alternative engineering programme as your second-choice programme. If your APS does not meet the entrance requirements, then consider the second-choice programme indicated in the tables.

**Accreditation:** The various programmes in the School of Engineering are accredited by the Engineering Council of South Africa (ECSA), and our degrees meet the requirements for professional engineers in South Africa. All our programmes in the School for the Built Environment are internationally recognised and accredited by their respective statutory councils, allowing students to register as members of their chosen professions. All the degree offerings in the School of Information Technology (SIT) are highly sought after in the IT industry with a focus on industry-related trends. The curriculum conforms to the highest international standards. We are very proud to be a member of the iSchools Organisation. We are the only IT School in South Africa with Accreditation Board for Engineering & Technology (ABET) rating.

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

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023			APS
	Achievement level			
SCHOOL OF ENGINEERING	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BEng (Industrial Engineering)<sup>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Industrial Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Chemical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<b>Careers:</b> Chemical engineers are involved in industrial processes that convert raw materials to products with a higher economic value. This is achieved using 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.				



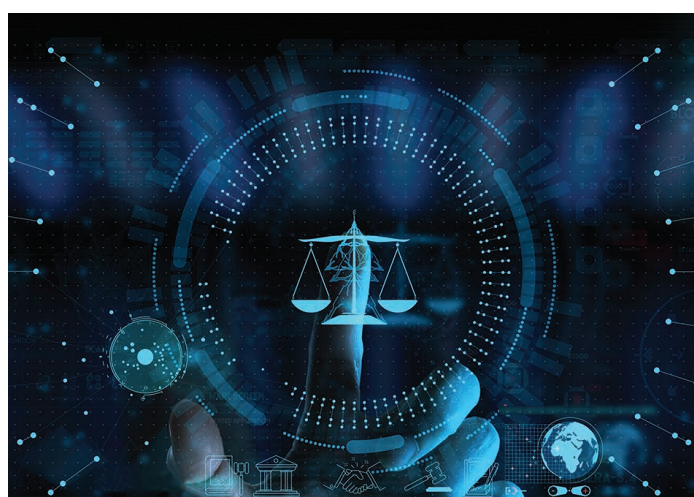
Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
SCHOOL OF ENGINEERING	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BEng (Civil Engineering)<sup>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Civil Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Electrical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Electronic Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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.				
<b>BEng (Mechanical Engineering)<sup>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Mechanical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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/ missile 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>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Metallurgical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<b>Careers:</b> Metallurgical engineers unlock the riches of deposits of metal ores and minerals and optimise the manufacture and performance of metallic components. You'll find metallurgical engineers 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 into high-performance products. Areas of specialisation include minerals processing, extractive metallurgy, materials engineering and performance, advanced manufacturing processes, including laser-assisted additive manufacturing and welding, as well as failure analysis and forensic engineering.				
<b>BEng (Mining Engineering)<sup>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Mining Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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>2</sup></b> [4 years]	5	6	6	35
The suggested second-choice programmes for BEng (Computer Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics) if your APS and subject requirements of your first-choice programme are not obtained.				
<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>2</sup></b> ENGAGE is a supporting programme for Engineering disciplines [5 years]	5	5	5	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .				



Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
SCHOOL FOR THE BUILT ENVIRONMENT	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BSc (Architecture) <sup>1</sup></b> [3 years]	5	4	4	27
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
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>2</sup></b> [3 years]	5	5	or Accounting	30
			4	
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 can 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>2</sup></b> [3 years]	5	5	or Accounting	30
			4	
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.				
<b>BSc (Quantity Surveying) <sup>2</sup></b> [3 years]	5	5	or Accounting	30
			4	
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>2</sup></b> [4 years]	5	4	-	27
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
<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 NSC and IEB for 2023			APS
	Achievement level			
SCHOOL OF INFORMATION TECHNOLOGY	English Home Language or English First Additional Language	Mathematics		
<b>BIT (Information Systems) <sup>2</sup></b> [3 years]	5	5		30
The suggested second-choice programme for BIT (Information Systems) is BIS (Information Science).				
<b>Careers:</b> Data scientist, IT auditor, IT entrepreneur, IT tax specialist, e-business consultant, programmer, business analyst, project manager, CIO, CTO and knowledge manager				
<b>BSc (Computer Science) <sup>2</sup></b> [3 years]	5	5		30
The suggested second-choice programmes for BSc (Computer Science) are BSc (Information and Knowledge Systems) and BCom (Informatics).				
<b>Careers:</b> Programmers, systems analysts, systems architects, consultants, database administrators, network analysts and researchers				
<b>BIS (Multimedia) <sup>2</sup></b> [3 years]	4	5		30
The suggested second-choice programmes for BIS (Multimedia) are BIS (Information Science), BIS (Publishing), BSc (Information and Knowledge Systems) and BCom (Informatics).				
<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>2</sup></b> [3 years]	4	5		30
The suggested second-choice programme for BSc (Information and Knowledge Systems) is BSc (Computer Science).				
<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>2</sup></b> [3 years]	4	-		28
The suggested second-choice programmes for BIS (Information Science) are BIS (Publishing), BCom (Informatics) and BA.				
If informatics is selected as a subject 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).				

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		
SCHOOL OF INFORMATION TECHNOLOGY	English Home Language or English First Additional Language	Mathematics	APS
<b>BIS (Publishing) <sup>2</sup></b> [3 years]	5	-	28
The suggested second-choice programmes for BIS (Publishing) are BIS (Information Science), BA (Languages) and BA.			
<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>2</sup></b> [3 years]	5	5	30
This programme is administered by the Faculty of Economic and Management Sciences.			
<b>Careers:</b> Data scientist, IT auditor, IT entrepreneur, IT tax specialist, e-business consultant, programmer, business analyst, project manager, CIO, CTO and knowledge manager			



## Faculty of Law

- Candidates must 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.
- The final NSC/IEB results will be the determining factor with regard to final admission.
- Minimum requirements for admission to the relevant programme are set out below.

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

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023	
	Achievement level	APS
	English Home Language or English First Additional Language	
<b>LLB <sup>2</sup></b> [4 years]	5	32
The suggested second-choice programmes for LLB are BA (Law) and BCom (Law).		
Candidates that fulfil the requirements for admission as set out in this brochure will be conditionally accepted on a <b>first-come-first-served basis, subject to the availability of places.</b> However, as applications already open on 1 April and spaces are limited, candidates are <b>urged to apply as early as possible in the year.</b>		
<b>Careers:</b> Refer to the infographics in the faculty brochure at <a href="http://www.up.ac.za/programmes">www.up.ac.za/programmes</a> > Undergraduate > Admission information.		
<b>BA (Law) <sup>2</sup></b> [3 years]	<b>Queries relating to LLB applications can be directed to:</b>  <b>Tel</b> +27 (0)12 420 4265 <b>Fax</b> +27 (0)12 420 2090 <b>Email</b> <a href="mailto:lawadmin@up.ac.za">lawadmin@up.ac.za</a>	
<b>BCom (Law) <sup>2</sup></b> [3 years]	<b>Queries relating to BA (Law) applications can be directed to:</b>  Ms Ernika Monyeki (Faculty of Humanities) <b>Tel</b> +27 (0)12 420 5241 <b>Email</b> <a href="mailto:ernika.monyeki@up.ac.za">ernika.monyeki@up.ac.za</a>	
	<b>Queries relating to BCom (Law) applications can be directed to:</b>  Ms Ronel Steenkamp (Faculty of Economic and Management Sciences) <b>Tel</b> +27 (0)12 420 3347 <b>Email</b> <a href="mailto:ronel.steenkamp@up.ac.za">ronel.steenkamp@up.ac.za</a>	

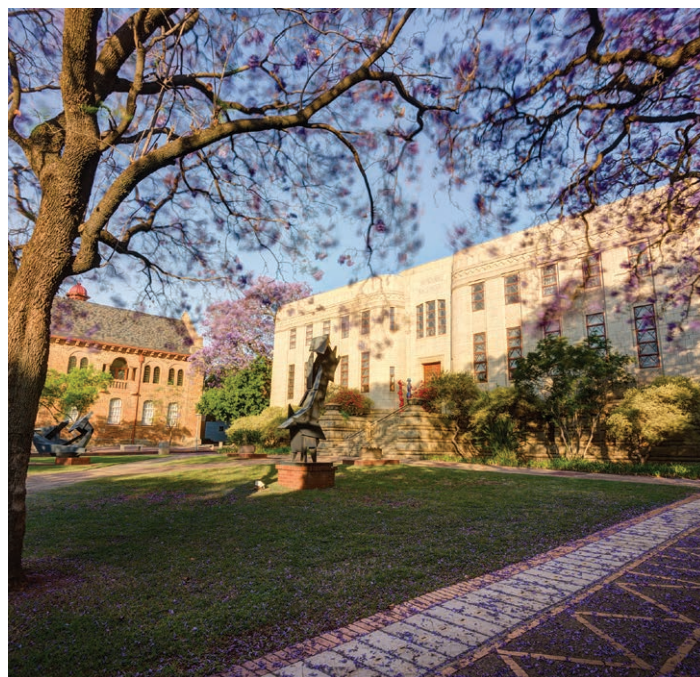
## Faculty of Humanities

- All modules (excluding foreign language modules) will only be presented in English, as English is the language of tuition, communication and correspondence at the University of Pretoria.
- You will be considered for conditional admission if space allows, and if you:**
  - are a Grade 11 applicant and meet all the specific programme and APS requirements;
  - submit your final Grade 11 examination results, and
  - have a National Senior Certificate (NSC) with university endorsement or an equivalent qualification.
- You will be considered for final admission to degree studies if space allows, and if you:**
  - have a National Senior Certificate (NSC) or equivalent qualification with admission to bachelor's degree studies; and
  - comply with the minimum subject requirements as well as the APS requirements of your chosen programme.

**University of Pretoria website** [www.up.ac.za/faculty-of-humanities](http://www.up.ac.za/faculty-of-humanities)

- Refer to the important information for prospective students on page 2.

SELECTION PROGRAMMES			
Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		APS
	Mathematics	English Home Language or English First Additional Language	
<b>BA (Speech-Language Pathology) <sup>1</sup></b> [4 years]	4	5	32
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .			
Selection is based on academic achievement, and only 50 students are admitted. The conditional selection process starts in August each year. For more information, please contact the programme coordinator. The first year of study is the same for both the Audiology and Speech-Language Pathology programmes. <b>Careers:</b> Work in education and special education, hospitals, clinics or rural communities, or private practices, government, military and academic institutions (teaching and research)			
<b>BA (Audiology) <sup>1</sup></b> [4 years]	4	5	32
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .			
Selection is based on academic achievement, and only 50 students are admitted. The conditional selection process starts in August each year. For more information, please contact the programme coordinator. For Audiology and Speech-Language Pathology programmes, the first study year is the same. <b>Careers:</b> 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 (Information Design) <sup>1</sup></b> [4 years]		5	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .			
To retain admission, you must obtain an APS of at least 28 in the NSC. In addition to the UP application, it is compulsory for applicants to submit an online portfolio to the Information Design division by 30 June. Those who fail to do this will end up with an incomplete application and will therefore not be considered for the selection process. <b>Careers:</b> 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			



NON-SELECTION PROGRAMMES		
Programmes	Minimum requirements for NSC and IEB for 2023	
	Achievement level	
	English Home Language or English First Additional Language	APS
<b>BA <sup>2</sup></b> [3 years]	5	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to <a href="mailto:carol.bosch@up.ac.za">carol.bosch@up.ac.za</a> .		
To retain admission, candidates must obtain an APS of at least 28 in the NSC. <b>Careers:</b> There is a range of career options for students who complete the BA programme. Since the BA programme is relatively flexible, students can choose the same majors and elective modules as students studying in more structured programmes.		
<b>Note:</b> Students who wish to become psychologists must complete a BA majoring in Psychology, the BSocSciHons (Psychology), and the MA (Clinical, Counselling or Research Psychology). <b>Careers:</b> Clinical, counselling (sports and community) and research psychologist, registered counsellor or registered psychometrist. (Contact the Health Professions Council of South Africa [HPCSA— <a href="http://www.hpcsa.co.za">www.hpcsa.co.za</a> ] for information on the requirements.)		
<b>Bachelor of Social Work (BSW) <sup>2</sup></b> [4 years]	5	30
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. 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). <b>Career:</b> Social worker		
<b>BA (Law) <sup>2</sup></b> [3 years]	5	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>Career:</b> Lawyer (A BA (Law) degree and an LLB degree are required.)		
<b>BA (Languages) <sup>2</sup></b> [3 years]	5	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>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) <sup>2</sup></b> [3 years]	5	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>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) <sup>2</sup></b> [3 years]	5	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>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>BPolSci (International Studies) <sup>2</sup></b> [3 years]	5	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>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) <sup>2</sup></b> [3 years]	5	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>Careers:</b> Policy analysis and consultation, political analysis and communication, governance, conflict resolution, strategic intelligence, political development and mobilisation and risk analysis		
<b>BA (Fine Arts) <sup>2</sup></b> [4 years]	5	30
For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 6783.		
To retain admission, you must obtain an APS of at least 28 in the NSC. Candidates must also complete a UP competency test that assesses practical and theoretical components, and interview for admission to the programme. Successful applicants must achieve at least 60% in each of these components. An A4 portfolio must be submitted. This will be evaluated along with a UP competency test with practical and theoretical components. Successful applicants must pass with 60% in each of the following components: <ul style="list-style-type: none"> <li>Conceptualisation test</li> <li>Drawing</li> <li>Interview</li> <li>A4 Portfolio</li> </ul> <b>Careers:</b> Gallery managers, art facilitators, art consultants/advisors, art educators, artists in the fine arts, artists in new media, artists in applied arts		
<b>BA (Visual Studies) <sup>2</sup></b> [3 years]	5	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>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		





### NON-SELECTION PROGRAMMES

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		APS
	Mathematics	English Home Language or English First Additional Language	
<b>BSoSci (Philosophy, Politics and Economics) <sup>2</sup></b> [3 years]	5	5	32

The suggested second-choice programmes for BSoSci (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. Students interested in the BSoSci(PPE) programme not complying with the 5 in Mathematics for the programme, but with an APS of 32, a 4 in Mathematics and a 5 in English, may be admitted into another degree for their first year. If they register for STK 113 and STK 123 in their first year of study, and they pass each of these with 60%, they will however then have the option to apply for an internal transfer to the BSoSci(PPE) in their second year of study.

**Careers:** You will be eligible for a career in economic or political policy-making, journalism or the diplomatic service.

Programmes	Music	English Home Language or English First Additional Language	APS
<b>Bachelor of Music (BMus) <sup>2</sup></b> [4 years]	4 (50-59%) or Grade VII Practical and Grade V Theory (Unisa/Royal Schools/Trinity) or a comparable standard and Practical audition and theoretical test passed with 60%	5	30

The suggested second-choice programme for Bachelor of Music (BMus) is BA or consult the Programme Manager at +27 (0)12 420 3747.

The School of the Arts: Music selects candidates based on a practical singing or instrument performance of 15 minutes, as well as a theoretical test.

#### Audition required

- Video of a practical performance (60%): A performance on the candidate's principal instrument. The performance should last about 15 minutes, and the programme must contain three works from different style periods (standard: at least Grade VII, Unisa/Royal Schools/Trinity practical music examinations);
- Online theoretical test (60%): A written test that will assess the candidate's knowledge of elementary harmony (standard: at least Grade V, Unisa/ Royal Schools/Trinity theory examinations).

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

Programmes	Music	English Home Language or English First Additional Language	APS
<b>Bachelor of Music (BMus)—Extended programme <sup>2</sup></b> [5 years]	4 (50-59%) or Grade V Practical and Grade III Theory (Unisa/Royal Schools/Trinity) or a comparable standard and Practical audition and theoretical test passed with 50%	4	26

For advice on a second-choice programme, please consult the Programme Manager at +27 (0)12 420 3747.

#### Prospective students will be required to write an assessment.

The School of the Arts: Music selects candidates based on a practical singing or instrument performance of 10 minutes, as well as a theoretical test.

#### Audition required

- Video of a practical performance (50%): A performance on the candidate's principal instrument. The performance should last about 10 minutes, and the programme must contain three works from different style periods (standard: at least Grade V, Unisa/Royal Schools/Trinity practical music examinations);
- Online theory test (50%): A written test that will assess the candidate's knowledge of elementary theoretical principles (standard: at least Grade III, Unisa/ Royal Schools/Trinity theory examinations).

To retain admission, you must obtain an APS of at least 26 in the NSC. 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	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.

Applicants must complete and pass an audition process. To retain admission, you must obtain an APS of at least 28 in the NSC.

**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

## Faculty of Veterinary Science

- 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 have 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.
- BVSc applicants, please refer to Annexure C in the Faculty brochure at [www.up.ac.za/vet](http://www.up.ac.za/vet), for the categories of students we admit based on the Merit Point Score.
- BVetNurs applicants, please refer to Annexure D in the Faculty brochure at [www.up.ac.za/vet](http://www.up.ac.za/vet), for the categories of students we admit based on the Merit Point Score.
- The Faculty, being the only one of its kind in South Africa, strives to select students from diverse backgrounds and ethnic representation.
- Designated ethnic groups (see Annexure C and Annexure D in the Faculty brochure at [www.up.ac.za/vet](http://www.up.ac.za/vet)) are interpreted in terms of the Employment Equity Act 55 of 1998 and include black Africans, Coloureds and Indians.
- 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.
- School-leaving and university applicants who are conditionally admitted will forfeit their placement if they fail to meet the conditions as set in Annexure G in the Faculty brochure at [www.up.ac.za/vet](http://www.up.ac.za/vet).
- To retain conditional admission, applicants need to comply with the minimum subject requirements based on their final school year 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** [www.up.ac.za/vet](http://www.up.ac.za/vet)  
**Enquiries** [vetug@up.ac.za](mailto:vetug@up.ac.za)

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		
	English Home Language or English First Additional Language	Mathematics	Physical Sciences
<b>Bachelor of Veterinary Science (BVSc) <sup>1</sup></b> [6 years]	5	5	5

Will only be considered as a first study choice.

Proposed second choice programmes for BVSc are BSc (Biological Science), BSc (Zoology) and BScAgric (Animal Science). These programmes are also recommended for applicants who intend to apply again for a transfer to the BVSc programme in 2023 or later. Note: Students who intend to apply for admission to BVSc may register for BSc (Biological Sciences) modules, including Medical Terminology (MTL 180).

**Careers:** Veterinarians in private practice, research, academia or state veterinary services. Veterinarians can also work in the following fields: diagnostic laboratories, veterinary public health (milk and meat hygiene, control of transfer of disease), technical services, research and product development in pharmaceutical and food industries, consultancy, laboratory animal management, wildlife management, poultry and pig production and animal welfare.

Programmes	English Home Language or English First Additional Language	Mathematics	Physical Sciences or Life Sciences	APS
<b>Bachelor of Veterinary Nursing (BVetNurs) <sup>1</sup></b> [3 years]	4	4	4	28

Preferred as first study choice. For advice on a second-choice programme for BVetNurs, please consult a Student Advisor. To make an appointment, send an email to [carol.bosch@up.ac.za](mailto:carol.bosch@up.ac.za).

**Careers:** The following institutions employ veterinary nurses: veterinary clinics and veterinary hospitals, specialist veterinary facilities, 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.



## Faculty of Natural and Agricultural Sciences

- **BSc (Biological Sciences) programme:** This is a generic first-year programme in biological sciences. Only first-time university entry students who are uncertain about which specialisation degree programme to choose, may apply for this programme.
- **MBChB or BChD selection:** Students who intend to apply for admission to MBChB or BChD in the second semester, when places become available in these programmes, may register for any 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. 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. Students should contact the Faculty of Health Sciences for their added criteria.
- **BVSc and BVetNurs selection:** Students who intend to apply for admission to BVSc may register for BSc (Biological Sciences) modules including Medical Terminology (MTL 180). Applicants enrolled in the extended BSc programmes must complete the first 3 semesters of the BSc – Extended programme with the correct (equivalent) modules to be eligible for selection into the BVSc or BVetNurs programme. Students should contact the Faculty of Veterinary Science for their selection criteria.
- **BSc Extended programmes:**
  - Candidates who do not comply with the minimum admission requirements for a BSc and BScAgric mainstream programme, may be considered for admission to the corresponding BSc Extended programme, which requires an additional year of study.
  - The BSc Extended programmes are not available for students who meet all the requirements for the corresponding mainstream programme.
  - Only students who apply in their final NSC or equivalent qualification year will be considered for admission into any of the BSc Extended programmes. This, however, excludes students who are upgrading or taking a gap year.

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

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
BIOLOGICAL SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BSc (Biological Sciences) <sup>2</sup></b>	5	5	5	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).				
<b>This is a generic first-year programme in Biological Sciences.</b> Only first-time university entry students who are uncertain about which specialisation degree programme to choose may apply for this programme.				
<b>BSc (Biochemistry) <sup>2</sup></b> [3 years]	5	5	5	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 as well as 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 (Biotechnology) <sup>2</sup></b> [3 years]	5	5	5	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 a vital role in determining the type of work a qualified biotechnologist can pursue.				
<b>BSc (Ecology) <sup>2</sup></b> [3 years]	5	5	5	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 will be at the forefront of conserving natural ecosystems in a changing world. They find work in environmentally based government and private conservation organisations, companies involved in the direct or indirect use of natural resources, environmental consultancies, environmental education initiatives, and academic and training institutions.				
<b>BSc (Zoology) <sup>2</sup></b> [3 years]	5	5	5	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 working on game and other wildlife in a range of exciting career prospects. They could be employed by public and private 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 the corporate sector. These jobs usually involve a stimulating combination of problem-solving, analytical work, and fieldwork.				
<b>BSc (Entomology) <sup>2</sup></b> [3 years]	5	5	5	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 with expertise in entomology are highly sought after in the agricultural sector as insect management specialists or researchers. They are also employed at nature reserves, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, educational institutions and museums, organisations involved in the management of invasive species and pests, quarantine and inspection services, in the biochemical and biotechnology industries, in IT-related fields, and in the corporate sector.				

Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
BIOLOGICAL SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BSc (Genetics) <sup>2</sup></b> <b>BSc (Human Genetics) <sup>2</sup></b> [3 years]	5	5	5	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) <sup>2</sup></b> <b>BSc (Human Physiology, Genetics and Psychology) <sup>2</sup></b> [3 years]	5	5	5	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 Biochemistry, Genetics and Microbiology (Faculty of Natural and Agricultural Sciences) and the Department of Psychology (Faculty of Humanities).				
<b>BSc (Medical Sciences) <sup>2</sup></b> [3 years]	5	5	5	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 subdisciplines 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 subdisciplines 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.				
<b>Limited places are available in the first year of BSc (Medical Sciences). Students who apply for BSc (Medical Sciences) as their first choice, and who meet the minimum admission requirements, will be admitted until the places have been filled. Transfers from the extended programme are allowed after three semesters in the extended programme only if students comply with all of the prerequisites for ANA 121, ANA 122 and ANA 126 (CMY 117 and MLB 111, or their equivalent, passed).</b>				
<b>BSc (Microbiology) <sup>2</sup></b> [3 years]	5	5	5	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 in medical or veterinary microbiology, microbial genomics and ecology or as researchers at organisations such as the CSIR, MRC or ARC, or lecturers and researchers at academic institutions.				
<b>BSc (Plant Science) <sup>2</sup></b> [3 years]	5	5	5	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 (SANParks), private ecological companies and research institutions such as the CSIR, ARC and the South African National Biodiversity Institute (SANBI).				
<b>BSc – Extended programme – Biological and Agricultural Sciences <sup>2</sup></b>	4	4	4	26
Students enrolled for the BSc – Extended programme – Biological and Agricultural Sciences, do not qualify to apply for the mid-year intake in the Faculty of Health Sciences.				







Programmes	Minimum requirements for NSC and IEB for 2023				APS
	Achievement level				
AGRICULTURAL AND FOOD SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences		
<b>BSc (Culinary Science) <sup>2</sup></b> [4 years]	5	5	5	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>2</sup></b> [3 years]	5	5	5	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>2</sup></b> [4 years]	5	5	5	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, presented jointly by Consumer and Food Sciences (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 and food manufacturing companies), government departments, international organisations (such as the United Nations Food and Agricultural Organisation (FAO) and the World Health Organisation (WHO)), NGOs, research organisations and as project managers and advisors in the food, health and consumer sectors.					
<b>BScAgric (Agricultural Economics and Agribusiness Management) <sup>2</sup></b> [4 years]	5	5	5	32	
The suggested second-choice programme for BScAgric (Agricultural Economics and Agribusiness Management) is BCom (Agribusiness Management).					
<b>Careers:</b> The BScAgric (Agricultural Economics and Agribusiness Management) degree is ideal for students who are passionate about and have competencies in both science and business subjects. The degree programme cultivates problem solvers with unique skill sets to help feed and clothe the world. 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, commodity trading houses, food processors and manufacturers, and research councils.					
<b>BScAgric (Animal Science) <sup>2</sup></b> [4 years]	5	5	5	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. Careers in this field make an essential contribution to food (protein) production 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 scientists in research, commercial farming and the public sector, and for in the livestock and feed 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. It is internationally recognised, which means that graduates can register as professional animal scientists.					

Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
AGRICULTURAL AND FOOD SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BScAgric (Plant Pathology) <sup>2</sup></b> [4 years]	5	5	5	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 in: <ul style="list-style-type: none"> <li>▪ <b>Education and training:</b> GGraduates can work at universities, colleges and schools.</li> <li>▪ <b>Plant pathologists:</b> Graduates are in demand in various industries. Careers range from researchers to practitioners who work in laboratories, on commercial farms (which includes fieldwork) or in the food trade industry.</li> <li>▪ <b>Research and management:</b> Graduates are also hired at research institutes, government departments, seed, fertiliser and agrochemical companies, municipalities and in the mining industry.</li> <li>▪ <b>Extension services for technology transfer:</b> Employers of graduates include grower associations, national and provincial Departments of Agriculture, Land Reform and Rural Development (DALRRD), Environment, Forestry and Fisheries (DEFF), Tourism (DT), Mineral Resources and Energy (DMRE) and Water and Sanitation (DWS).</li> <li>▪ <b>Entrepreneurial:</b> Graduates can work as consultants or in production.</li> </ul>				
<b>BScAgric (Applied Plant and Soil Sciences) <sup>2</sup></b> [4 years]	5	5	5	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>▪ <b>Public sector:</b> The ARC, DWS, DEFF, DT, DALRRD, DMRE, the CSIR, provincial agriculture and nature conservation departments, SANBI, municipalities, SANParks, national farming and food production agencies</li> <li>▪ <b>Private sector:</b> 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>▪ <b>Extension services involving knowledge transfer:</b> Nature conservation, national and provincial departments of agriculture and the environment, environmental management and rehabilitation, nurseries, crop, turfgrass and weed management, private companies servicing field crops, vegetables, medicinal and aromatic plants, fruit, ornamental and cut-flower production</li> <li>▪ <b>Entrepreneurial:</b> 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>				
<b>BSc – Extended programme – Biological and Agricultural Sciences <sup>2</sup></b>	4	4	4	26
Students who are placed on this BSc – Extended programme will take a minimum of five years to complete any BScAgric, BSc (Culinary Science) or BSc (Nutrition) programmes.				

Programmes	Minimum requirements for NSC and IEB for 2023		
	Achievement level		APS
	English Home Language or English First Additional Language	Mathematics	
<b>BConSci (Clothing: Retail Management)<sup>2</sup></b> [4 years]	5	4	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>2</sup></b> [4 years]	5	4	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>2</sup></b> [4 years]	5	4	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.			



Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
PHYSICAL SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BSc (Chemistry) <sup>2</sup></b> [3 years]	5	5	5	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).				
<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 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.				
<b>BSc (Physics) <sup>2</sup></b> [3 years]	5	5	5	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).				
<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.				
<b>BSc (Geography and Environmental Sciences) <sup>2</sup></b> [3 years]	5	5	5	34
The suggested second-choice programme for BSc (Geography and Environmental Sciences) is BSc (Meteorology).				
<b>Careers:</b> Geography and environmental sciences offer a range of career paths, including teaching, research (for a variety of bodies) and the application of geographical knowledge and skills in practice. Graduates can focus on environmental management; urban issues such as informal settlements; regional and rural development; and environmental health or environmental issues, including pollution, climate change and the understanding and addressing of negative impacts on biodiversity/ecosystem services through activities such as mining, agriculture and tourism. Environmental specialists act as consultants in the fields of environmental analysis and management, environmental law, environmental standards, environmental management systems and environmental auditing. They are needed by, among others, professionals in private sector institutions involved with environmental issues, for example, transport and civil engineers, town and regional planners and landscape architects. In the private sector, graduates are generally employed by real estate, planning, architectural and engineering firms, and by banks, tourism organisations, environmental conservation bodies and industry. Government departments such as the Departments of Environment, Forestry and Fisheries (DEFF), Agriculture, Land Reform and Rural Development (DALRRD), Water and Sanitation (DWS), Tourism (DT), Basic Education (DBE) and Higher Education and Training (DHET), and Statistics South Africa (Stats SA) also employ these graduates, as do parastatal organisations such as the South African Bureau of Standards (SABS), the South African Biodiversity Institute (SANBI) and the Council for Scientific and Industrial Research (CSIR). Many graduates are also self-employed, working mainly in areas such as marketing, planning, development, tourism, cartography, remote sensing, environmental analysis, social impact assessments and environmental auditing.				
<b>BSc (Geoinformatics) <sup>2</sup></b> [3 years]	5	5	5	34
The suggested second-choice programme for BSc (Geoinformatics) is BSc (Geography and Environmental Sciences).				
<b>Careers:</b> Graduates with a BSc (Geoinformatics) readily find work at organisations such as Geographic Information System (GIS) vendors (ESRI or Intergraph), the CSIR, GIS consultants (AfrigiS, GeoTerramag, GISCOE), civil engineering consultants (Aurecon, SSI), the South African National Space Agency (SANSA), National Geospatial Information (NGI), or any municipality in the country. Many government departments (eg DEFF, DSI, Stats SA, DALRRD and DWS) also employ GIS professionals. The South African Geomatics Council has accredited the BSc Geoinformatics and BScHons Geoinformatics programmes. BSc Geoinformatics graduates can register as GIS Candidate Technologists, and BScHons Geoinformatics graduates can register as GIS Candidate Professionals.				
<b>BSc (Geology) <sup>2</sup></b> [3 years]	5	5	5	34
The suggested second-choice programmes for BSc (Geology) are BSc (Engineering and Environmental Geology), BSc (Physics) and BScAgric (Applied Plant and Soil Sciences).				
<b>Careers:</b> Large international mining companies are significant employers of geologists and other geoscientists in research, exploration and mining projects. However, employment is increasingly to be found in smaller, entrepreneurial firms (junior's). The Council also offers exciting careers for Geosciences, the CSIR, and the Council for Mineral Technology (MINTeK), DWS, 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, to provide valuable information before 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.				
<b>BSc (Meteorology) <sup>2</sup></b> [3 years]	5	5	5	34
The suggested second-choice programme for BSc (Meteorology) is BSc (Geography and Environmental Sciences).				
<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: <ul style="list-style-type: none"> <li><b>Researchers:</b> They research all aspects of the weather and climate 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> The weather forecaster must 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 essential 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> The BScHons Meteorology degree, which is required to become a professional meteorologist, complies fully with the Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology Volume I – Meteorology.				

Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
PHYSICAL SCIENCES	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>BSc (Engineering and Environmental Geology) <sup>2</sup></b> [3 years]	5	5	5	34
The suggested second-choice programme for BSc (Engineering and Environmental Geology) is BSc (Geology).				
<b>Careers:</b> Engineering and environmental 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, to provide valuable information before construction. They also locate and evaluate suitable construction materials. The task of the hydrogeologist is to search for groundwater and monitor the responsible exploitation of that water.				
<b>BSc – Extended programme – Physical Sciences <sup>2</sup></b>	4	4	4	28
Progression from the BSc – Extended programme to the mathematics intensive programmes will be considered only for students who obtained a GPA of 65% in all their first-year modules.				

Programmes	Minimum requirements for NSC and IEB for 2023			
	Achievement level			APS
MATHEMATICAL SCIENCES	English Home Language or English First Additional Language	Mathematics		
<b>BSc (Actuarial and Financial Mathematics) <sup>2</sup></b> [3 years]	5	7		36
The suggested second-choice programme for BSc (Actuarial and Financial Mathematics) is BSc (Mathematical Statistics).				
<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.				
<b>BSc (Mathematics) <sup>2</sup></b> <b>BSc (Applied Mathematics) <sup>2</sup></b> [3 years]	5	6		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).				
<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.				
<b>BSc (Mathematical Statistics) <sup>2</sup></b> [3 years]	5	6		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).				
<b>Careers:</b> By completing this programme you will therefore be positioned at the forefront of analytical thinking and application in the statistical, computational and interdisciplinary environments of the future. What career opportunities exist for you as a graduate? Many professions amongst others: Data scientist, data analyst, financial risk analyst, financial analyst, geospatial information analyst, biostatistician, statistical software engineer. Some examples of career opportunities are: <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>Statisticians are prominent in the modelling of climate change, crime hotspots, rhino-poaching, diseases, etc.</li> <li>Statisticians advise animal scientists on factors affecting animal nutrition and genetic breeding plans.</li> <li>Government employs statisticians to understand population demographics, health risks and other factors that influence sustainable development programmes.</li> </ul>				
<b>BSc – Extended programme – Mathematical Sciences <sup>2</sup></b>	4	5		28
Progression from the BSc – Extended programme to the mathematics-intensive programmes will be considered only for students who obtained a GPA of 65% in all their first-year modules. Students who pass all their first-year modules will be advised on alternative academic pathways. Admission to the BSc (Actuarial and Financial Mathematics) programme will be considered only in the case of students who passed IAS 111 and achieved a minimum mark of 60% in WTW 153 and WST 153.				





## Faculty of Health Sciences

- Admission to Health Sciences programmes is subject to a selection process.
- Grade 11 final examination 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 or Life Sciences if it is a requirement, is calculated.
- In the Faculty of Health Sciences places are reserved in specific categories to promote diversity by ensuring an equitable representation of demographically defined designated groups.
- For purposes of selection, school leavers and candidates with university experience compete in two categories, namely the Open category and the Designated Group category.
  - The Designated Group category includes Black and Coloured South African applicants.
  - The Open category refers to all applicants, including those from the Designated Group who compete first in the Open category and then in the Designated Group category if unsuccessful in the Open category.
- Citizens from countries other than South Africa\* 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](mailto: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.
- MBChB or BChD selection:** Students who intend to apply for admission to MBChB or BChD in the second semester, when places become available in these programmes, may register for any 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. 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. Students should contact the Faculty of Health Sciences for their added criteria.

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

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023			APS
	Achievement level			
	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
School of Dentistry				
<b>Bachelor of Dental Surgery (BChD) <sup>1</sup></b> [5 years]	5	6	5	35
The suggested second-choice programme is any BSc biological sciences programme.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> Dentists, specialists, academics and researchers				
<b>Bachelor of Oral Hygiene (BOH) <sup>1</sup></b> [3 years]	4	4	4	25
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Career:</b> Oral hygienists				
School of Healthcare Sciences				
<b>Bachelor of Dietetics (BDietetics) <sup>1</sup></b> [4 years]	4	5	5	28
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Career:</b> Dietitians				
<b>Bachelor of Nursing Science (BNurs) <sup>1</sup></b> [4 years]	4	4	Life Sciences (not Physical Sciences) 4	28
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> General nursing and midwifery				
<b>Bachelor of Occupational Therapy (BOT) <sup>1</sup></b> [4 years]	4	4	4	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> Occupational therapists, academics and researchers				

\*Applicants who are not South African citizens

Programmes	Minimum requirements for NSC and IEB for 2023			APS
	Achievement level			
	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>Bachelor of Physiotherapy (BPhysio) <sup>1</sup></b> [4 years]	4	4	4	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> Physiotherapists, academics and researchers				
<b>Bachelor of Radiography (Diagnostics) (BRad Diagnostics) <sup>1</sup></b> [4 years]	4	4	4	30
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> Radiographers, academics and researchers				
<b>School of Medicine</b>				
<b>Bachelor of Clinical Medical Practice (BCMP) <sup>1</sup></b> [3 years]	4	4	Physical Sciences or Life Sciences	28
			4	
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will be considered as first- and second study choice. Preference will be given to first study choice applicants. Selection is based on a candidates' final Grade 11 examination results and the Biographical Information Form. <b>Careers:</b> Clinical associates, academics and researchers				
<b>Bachelor of Medicine and Surgery (MBChB) <sup>1</sup></b> [6 years]	5	6	5	35
The suggested second-choice programme is any BSc biological sciences programme. A limited number of spaces are available for selection after the first semester.				
Will only be considered as a first study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> General medical practitioners, specialists (after postgraduate training)				
<b>Bachelor of Sports Science (BSportSci) <sup>1</sup></b> [3 years]	4	4	Physical Sciences or Life Sciences	30
			4	
For advice on a second-choice programme, please consult a Student Advisor. To make an appointment, send an email to carol.bosch@up.ac.za.				
Will be considered as first- and second study choice. Selection is based on a candidates' final Grade 11 examination results. <b>Careers:</b> 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). For the admission requirements, please refer to the table in the Natural and Agricultural Sciences undergraduate faculty brochure.
<b>BA (Audiology)</b>	BA (Audiology) and BA (Speech-Language Pathology) are presented by the Faculty of Humanities. For the admission requirements, please refer to the table in the Faculty of Humanities undergraduate brochure.
<b>BA (Speech-Language Pathology)</b>	

## Faculty of Theology and Religion

University of Pretoria website [www.up.ac.za/faculty-of-theology-and-religion](http://www.up.ac.za/faculty-of-theology-and-religion)

- Refer to the important information for prospective students on page 2.

Programmes	Minimum requirements for NSC and IEB for 2023	
	Achievement level	APS
	English Home Language or English First Additional Language	
<b>Bachelor of Divinity (BDiv) <sup>2</sup></b> (for admission to MDiv studies) [4 years]	4	28
The suggested second-choice programmes for Bachelor of Divinity (BDiv) are Bachelor of Theology (BTh) and University Diploma in Theology (DipTheol).		
<b>Careers:</b> 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>Bachelor of Theology (BTh) <sup>2</sup></b> [3 years]	4	28
The suggested second-choice programme for Bachelor of Theology (BTh) is University Diploma in Theology (DipTheol).		
<b>Careers:</b> 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>University Diploma in Theology (DipTheol) <sup>2</sup></b> [3 years]	3	24
For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.		
<b>Careers:</b> 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 University Diploma in Theology (DipTheol) is intended for candidates who have completed NSC/IEB (or equivalent) but without the required university admission.		

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**1**

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the JT App**  
*(for learners,  
parents,  
teachers)*

Register for the **web-based JT App** where you will find the link to register to become a JT member.

- In your web browser, type: [juniortukkieapp.co.za](http://juniortukkieapp.co.za)
- Click on 'Sign up'
- Complete the JT App registration form.
- Add the JT App to the home screen of your mobile device.
- On the JT App, you will receive important notifications for prospective students.

**#JoinJT**