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

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

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

### University of Pretoria contact information

**Location**

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

**Postal address**

- University of Pretoria
  - Private Bag X20
  - Hatfield 0028
  - South Africa

**Student Service Centre**

- Tel: +27 (0)12 420 3111
- Email: ssc@up.ac.za
- Website: www.up.ac.za

### University of Pretoria banking details

<table>
<thead>
<tr>
<th>University bank accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account holder</td>
</tr>
<tr>
<td>Bank</td>
</tr>
<tr>
<td>Branch</td>
</tr>
<tr>
<td>(Branch code: 632005)</td>
</tr>
<tr>
<td>Swift code</td>
</tr>
<tr>
<td>Account number</td>
</tr>
<tr>
<td>Deposit reference</td>
</tr>
</tbody>
</table>

### Minimum admission requirements

To be able to register, candidates must comply with the minimum requirements for degree studies, as well as with the minimum requirements for the relevant programme. The calculation of an Admission Point Score (APS) is based on a candidate’s achievement in any SIX recognised NSC 20-credit subjects by using the NSC seven-point rating scale. Life Orientation is a 10-credit subject and may not be used for calculating the APS. Life Orientation is also not a faculty-specific subject requirement.

### National Senior Certificate (NSC) seven-point rating scale

<table>
<thead>
<tr>
<th>Achievement level</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Outstanding achievement</td>
<td>80–100%</td>
</tr>
<tr>
<td>6</td>
<td>Meritorious achievement</td>
<td>70–79%</td>
</tr>
<tr>
<td>5</td>
<td>Substantial achievement</td>
<td>60–69%</td>
</tr>
<tr>
<td>4</td>
<td>Adequate achievement</td>
<td>50–59%</td>
</tr>
<tr>
<td>3</td>
<td>Moderate achievement</td>
<td>40–49%</td>
</tr>
<tr>
<td>2</td>
<td>Elementary achievement</td>
<td>30–39%</td>
</tr>
<tr>
<td>1</td>
<td>Not achieved</td>
<td>0–29%</td>
</tr>
</tbody>
</table>

### Citizens from countries other than South Africa

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

### Universities South Africa (USAf)

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

### Contact information

- **Tel**: +27 (0)12 420 3111
- **Fax**: +27 (0)12 420 3111
- **Email**: examinations@usafrican.ac.za
- **Website**: http://he-enrol.ac.za or https://mb.usaf.ac.za
- **Location**: 1st floor, Block D and E, Hadefields Office Park, 1267 Pretorius Street, Hatfield 0028, Pretoria
- **Postal address**: PO Box 27392, Sunnyside, Pretoria 0132

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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.

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**Download the JT APP at juniortukkieapp.co.za**

Apply for JT membership via the JT App:

- On the JT App, choose ‘JuniorTukkie’, then ‘Become a JuniorTukkie’
- JT Tel: +27 (0)12 420 6606/5102
- JT Email: junior.tukkie@up.ac.za
- JT Website: www.up.ac.za/juniortukkie
- JT App: www.up.ac.za/juniortukkie > ‘JT APP’
Conditions

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

- The average percentage for award purposes is the average of the actual percentages obtained for the six (6) best NSC/IEB/Cambridge subjects taken, excluding Life Orientation. This is for subjects taken in the final school-year end exams, based on the calculations done by the University of Pretoria.
- The average percentage is not rounded off.
- Certain subjects are EXCLUDED in the calculation of average percentages. These include Life Orientation, Mathematics Paper 3, Additional Mathematics, Practical Music Grade 4 and 5 (Note: Practical Music Grades 6, 7 and 8 are considered for inclusion in the calculation of the average percentage – if your music report for this subject is not part of your NSC report, please submit your official music report to your faculty’s student administration offices, before 28 January for consideration.)
- The awards are finalised on the basis of the final marks that the University receives from the Department of Basic Education for the final school-year. Results obtained for papers that have been re-marked are not taken into account for award purposes.
- Awards are fully repayable if students discontinue or terminate their studies in the relevant study programme for whatever reason during the year in which the award is made.
- If students change their study programmes during the year in which the award is made, the award value allocated for the study programme enrolled initially will remain unchanged. That is to say, the award will not be cancelled or adjusted upward/downward to align it with consecutive study programmes enrolled for.
- The University of Pretoria reserves the right to amend award values without prior notice.

Closing dates

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

Helpful websites/links

- www.up.ac.za/programmes
- www.up.ac.za/fees-and-funding
- www.up.ac.za/accommodation
- www.gostudy.mobi
- www.up.ac.za/sport
- www.nfas.org.za
- www.rbt.ac.za
- 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

Special package offer to new first-year academic achievers

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

<table>
<thead>
<tr>
<th>Qualifying academic average percentage</th>
<th>Admission to study</th>
<th>Qualifying academic average percentage</th>
<th>Residence placement</th>
<th>Qualifying academic average percentage</th>
<th>Natural and Agricultural Sciences AND Engineering, Built Environment and Information Technology</th>
<th>Health Sciences AND Veterinary Science</th>
<th>Other faculties</th>
</tr>
</thead>
<tbody>
<tr>
<td>75%-100%</td>
<td>Guaranteed admission to your first- or second-choice non-selection programme (not applicable to selection programmes) if your application is received no later than 1 May of the year preceding commencement of studies.</td>
<td>85%-100% Guaranteed placement in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.</td>
<td>75%-79.99% Guaranteed in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.</td>
<td>80%-84.99% Guaranteed placement in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.</td>
<td>85%-89.99% Guaranteed placement in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.</td>
<td>90%-100% Guaranteed placement in a UP residence if your application is received no later than 1 May of the year preceding commencement of studies and once you are conditionally admitted to a programme.</td>
<td></td>
</tr>
<tr>
<td>R6 500</td>
<td>R16 000</td>
<td>R6 500</td>
<td>R16 000</td>
<td>R25 000</td>
<td>R16 000</td>
<td>R25 000</td>
<td>R40 000</td>
</tr>
</tbody>
</table>

Note: The University of Pretoria reserves the right to amend award values without prior notice.
2. Online application process for studies in 2021

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

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

- It is important to indicate a first- as well as a second-choice programme on your Online Application. The Application only makes provision for two study choices. If you want to add a third choice, or if you want to change your study choice after you have already submitted your online application, please forward your request to ssc@up.ac.za.
- Your second-choice programme will automatically be considered should your application for your first-choice programme be unsuccessful or if your first choice is a selection programme.

- Ensure that your first- and second-choice programmes meet the minimum admission requirements as well as the faculty's selection guidelines.
- Please note that certain programmes will not be considered if indicated as your second choice. Refer to the faculty tables from page 5.
- For study advice, make an appointment with a Student Advisor via Ms Carol Bosch at +27 (0)12 420 5144 or carol.bosch@up.ac.za.

More information is available at www.up.ac.za/programmes

Tuition and residence fees
For more information on tuition and residence fees, go to www.up.ac.za/fees-and-funding.

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

Apply to study at UP
Apply ONLINE at www.up.ac.za/apply from 1 March in the year preceding studies.

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

- Before you start to complete the Online Application, please watch an online application demonstration on the UP YouTube channel.
- Ensure that the email address that you indicate on your Online Application is correct as your temporary password and T-number will be sent to this email address.
- Ensure that you apply before the closing dates of both your first- and second-choice programmes. The closing dates are indicated in the faculty tables; see page 5 in this brochure or go to www.up.ac.za/online-application > Closing dates.
- You will receive your student number within 10 working days after you have submitted your Online Application.
- On receipt of your student number, you will be able to track your application status on the UP Student Portal. Refer to Step 7 for instructions on how to gain access to your Student Portal.

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

- Residence placement is based on academic merit and date of application.
- The demand for accommodation by far exceeds the available spaces. Apply as soon as possible from 1 March.
- Preference is given to students with an academic average of 75% and above.

More information is available at www.up.ac.za/accommodation.

To qualify for guaranteed placement in a UP residence, the prospective student must:
- apply before 1 May in the year preceding studies;
- have obtained a minimum average of 85% in the examination with which the student applies to study at UP; and
- be conditionally admitted to a programme.

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. No late applications will be accepted.
- UP sports bursaries: www.up.ac.za/sport

National Student Financial Aid Scheme (NSFAS)
- For applications and comprehensive information, visit 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 installment. 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.

Other bursary options
- Bursaries according to field of study: www.gostudy.mobi
- The Bursary Register: Contact rlevin@mweb.co.za or +27 (0)11 672 6559
2. Online application process for studies in 2021

How to access the UP Student Portal
Go to www.up.ac.za and click on My UP Login.

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

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

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

- Click on the “New user” link below the Login tab.
- Type in your Username (u followed by your student number) and your National ID or Passport number. Click the “Proceed” button.
- Set up your new password and confirm the password in the second block. Click the “Proceed” button.
- A message is displayed to inform the user that the password was set successfully. Click the “OK” button.
- A list of challenge questions appears and you may select to answer any 3 of these.
- Select any three challenge questions and then click on the “Submit” button.
- Enter your answer on each challenge question. Click the “Save” button.
- A message will be displayed to inform you that your challenge questions have been set up. Click the “OK” button.
- You are now ready to access the UP Student Portal.

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 > My UP Login.
- The contract should be completed online, and then printed and signed.
- The completed and signed original contract must be handed in at the Student Service Centre or posted to the Student Service Centre, University of Pretoria, Private Bag X20, Hatfield, 0028. The University of Pretoria does not accept faxed, scanned or emailed contracts.
- Watch the video on “How to complete the UP Student Contract” on the UP YouTube channel.

National Benchmark Test (NBT)
The National Benchmark Test is not compulsory for all programmes.

- The NBT consists of two components:
  - (1) AQL: Academic Literacy and Quantitative Literacy (which are combined). Quantitative Literacy is similar to Mathematical Literacy. The AQL test has also been translated into Braille.
  - (2) MAT: Mathematics.
- A complete schedule with all the test centres can be found at www.nbt.ac.za.

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

- These documents will be made available on the UP Student Portal, only for prospective students in the Faculty of Veterinary Science, who meet the minimum admission requirements. Visit the UP Student Portal regularly for notices in this regard.

- Be sure to complete and submit the relevant document before the due date. The Faculty will communicate the due date to applicants on the UP Student Portal under “Communications”.
- Enquiries may be directed to ssc@up.ac.za.

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

The special package offer includes:
- Guaranteed achievement awards (FLY@UP Assist First-year students) to students who qualify.
- Guaranteed admission to first- or second-choice non-selection programmes for prospective students with an academic average percentage of between 75% and 100%, if the application is received no later than 1 May of the year preceding commencement of studies.

- Guaranteed placement in a UP residence to prospective students with an academic average percentage of between 85% and 100% if:
  - your application is received no later than 1 May of the year preceding commencement of studies; and
  - you have been conditionally admitted to a programme.

More information is available at www.up.ac.za/fees-and-funding.
3. Undergraduate programmes

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

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

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

The second choices are merely suggestions and must not be seen as compulsory second choices.

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

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

Faculty of Education

Important information on undergraduate programmes for 2021

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

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

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Minimum requirements for 2021*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English Home Language or English First Additional Language</td>
</tr>
<tr>
<td></td>
<td>NSC/IEB AS Level</td>
</tr>
<tr>
<td>BEd (Foundation Phase Teaching) 3</td>
<td>4 D (26–27 admission based on the NBT)</td>
</tr>
<tr>
<td>BEd (Intermediate Phase Teaching) 3</td>
<td>4 D (26–27 admission based on the NBT)</td>
</tr>
</tbody>
</table>

The suggested second-choice programmes for BEd (Foundation Phase Teaching) (Pre-primary to Grade 3) and BEd (Intermediate Phase Teaching) (Grades 4 to 6) are any other BEd programmes.

Careers: Teachers and training officials in pre-primary or primary schools

Selection process:
• 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.
• Students who have been nominated by an official sports club of the University will enjoy preference for selection.
• Students who have been nominated by a sports club of the University will enjoy preference for selection.

For advice on a second-choice programme, please consult a Student Advisor at: +27 (0)12 420 5144.

Programmes | Minimum requirements for 2021* |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English Home Language or English First Additional Language</td>
</tr>
<tr>
<td></td>
<td>NSC/IEB AS Level</td>
</tr>
<tr>
<td>BEd (Senior Phase and Further Education and Training Teaching) 3</td>
<td>4 D (26–27 admission based on the NBT)</td>
</tr>
</tbody>
</table>

The suggested second-choice programmes for BEd (Senior Phase and Further Education and Training Teaching) (Grades 7 to 12) are any other BEd programme.

Careers: Teachers and training officials in primary or secondary schools

Higher Certificate in Sports Science Education 3 | 5 years |

For advice on a second-choice programme, please consult a Student Advisor at: +27 (0)12 420 5144.

Selection process:
• 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.
• Students who have been nominated by an official sports club of the University will enjoy preference for selection.
• Students who have been nominated by a sports club of the University will enjoy preference for selection.

For advice on a second-choice programme, please consult a Student Advisor at: +27 (0)12 420 5144.

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

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

Important information on undergraduate programmes for 2021

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

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

National Benchmark Test website
www.nbt.ac.za

Programmes Minimum requirements for 2021*<br>English Home Language or English First Additional Language Mathematics APS<br>NSC/IEB AS Level NSC/IEB AS Level<br>BCom (Accounting Sciences) 3 [3 years]<br>5 C 6 B 34<br>The suggested second-choice programmes for BCom (Accounting Sciences) are BCom and BCom (Financial Sciences).<br>Careers: First step towards qualifying as chartered accountants, external auditors, taxation professionals and advisors, financial directors or managers.<br>BCom (Investment Management) 3 [3 years]<br>5 C 6 B 34<br>The suggested second-choice programmes for BCom (Investment Management) are BCom, BCom (Financial Sciences) and BCom (Economics).<br>Careers: Portfolio fund manager, investment analyst, risk manager/anlalyst, quantitative analyst, financial advisor/planner, wealth manager, investment strategist.<br>BCom (Financial Sciences) 3 [3 years]<br>5 C 5 C 32<br>The suggested second-choice programmes for BCom (Financial Sciences) are BCom and BCom – Extended programme.<br>Careers with a focus on:<br>• Financial accounting: Financial accountants, credit controllers, SAPA (South African Institute of Professional Accountants) and ACCA (Association of Chartered Certified Accountants)<br>• Financial management: Management accountants, management consultants, financial advisors, cost accountants and financial managers.<br>• Taxation: Tax auditors, tax auditors in public practice, tax policy designers, tax professionals, tax compliance managers, SARS auditors and tax risk managers.<br>• Internal auditing: Internal auditors, risk officers, forensic auditors, IT auditors, performance auditors, environmental auditors, compliance officers, government auditors and governance auditors.<br>BCom (Economics) 3 [3 years]<br>5 C 5 C 32<br>The suggested second-choice programmes for BCom (Economics) are BCom, BCom (Statistics and Data Science) and BCom (Economics).<br>Careers: Economists 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, trainers or brokers, and academics. The work mostly entails statistical analysis (forecasting, structural and policy analysis) of economic and financial markets and international relations.<br>BCom (Economics) 3 [3 years]<br>5 C 5 C 32<br>The suggested second-choice programmes for BCom (Economics) are BCom and BCom – Extended programme.<br>Careers: 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, trainers and academics.<br>BCom (Law) 3 [3 years]<br>5 C 5 C 32<br>The suggested second-choice programmes for BCom (Law) are BA (Law) and LLB.<br>Careers: First step towards becoming attorneys, legal advisors, advocates, prosecutors, presiding officers (magistrates or judges) and academics in the legal field.<br>BCom (Statistics and Data Science) 3 [3 years]<br>5 C 5 C 32<br>The suggested second-choice programmes for BCom (Statistics and Data Science) are BCom and BCom – Extended programme.<br>Careers: Data scientists, statistical analysts in several industries, researchers, consultants and lecturers.

Programmes Minimum requirements for 2021*<br>English Home Language or English First Additional Language Mathematics APS<br>NSC/IEB AS Level NSC/IEB AS Level<br>BCom (Informatics) Focus area: Information Systems 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom (Informatics) Focus area: Information Systems are BCom and BCom – Extended programme.<br>Careers: 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.<br>BCom (Agribusiness Management) 3 [3 years]<br>5 C 5 C 30<br>The suggested second-choice programmes for BCom (Agribusiness Management) are BCom and BCom – Extended programme.<br>Careers: Agricultural economists and agribusiness managers at commercial banks, agribusinesses and other agricultural and food-oriented institutions; commodity traders on future markets on derivatives, working for producer organisations, as consultants, valuers, researchers or policy makers, or as managers and project managers in the above.<br>BCom 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom are any other BCom degree as well as the BCom – Extended programme.<br>Careers: The degree does not lead to a specific vocational outcome but, to some extent, offers opportunities to determine your own career outcome. Students are able to compile their own curricula with a view to future work opportunities in all sectors.<br>BCom (Business Management) 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom (Business Management) are BCom, BCom (Supply Chain Management) and BCom – Extended programme.<br>Careers: 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.<br>BCom (Supply Chain Management) 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom (Supply Chain Management) are BCom, BCom (Business Management) and BCom – Extended programme.<br>Careers: 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.<br>BCom (Marketing Management) 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom (Marketing Management) are BCom, BCom (Business Management) and BCom – Extended programme.<br>Careers: Product management, customer service management, customer relationship management, strategic marketing, sales management, brand management, advertising management, media planning, marketing research management, and promotions management.<br>BCom (Human Resource Management) 3 [3 years]<br>5 C 4 D 30<br>The suggested second-choice programmes for BCom (Human Resource Management) are BCom, BCom (Business Management) and BCom – Extended programme.<br>Careers: Human resources practitioners, human resources consultants, mediators, labour relations specialists, human resource managers, personnel managers, training officers, liaison officers, psychometrists and industrial psychologists. In their capacity as human resource practitioners, graduates will be responsible for matters such as developing human resource strategies and policies, human resource planning, recruitment and selection of employees, training and development of staff, labour relations and personnel administration.<br>BCom – Extended programme 4 [years]<br>4 D 3 E 26<br>For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.

Note: 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.<br>Careers: Career opportunities depend on the field of study chosen by students in their second year of study.<br>BAdmin (Public Management and International Relations) 3 [years]<br>5 C 28<br>For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 5144.<br>Careers: 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.

Closing dates: 1 SA – 31 May • Non-SA – 31 May 2 SA – 30 June • Non-SA – 30 June 3 SA – 30 September • Non-SA – 31 August

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

* Cambridge A level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.
Faculty of Engineering, Built Environment and Information Technology

Important information on undergraduate programmes for 2021

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

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

University of Pretoria website: www.up.ac.za/ebit
National Benchmark Test website: www.ntbt.ac.za

Programmes Minimum requirements for 2021* Achievement level

<table>
<thead>
<tr>
<th>SCHOOL OF ENGINEERING</th>
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<th>Mathematics</th>
<th>Physical Sciences</th>
<th>APS</th>
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<tr>
<td>BEng (Industrial Engineering)</td>
<td>NSC/IEB</td>
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<td>NSC/IEB</td>
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<tr>
<td>BEng (Civil Engineering)</td>
<td>NSC/IEB</td>
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<td>B</td>
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<td>BEng (Electronic Engineering)</td>
<td>NSC/IEB</td>
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<td>B</td>
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<tr>
<td>BEng (Mechanical Engineering)</td>
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<td>B</td>
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<tr>
<td>BEng (Metallurgical Engineering)</td>
<td>NSC/IEB</td>
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The suggested second-choice programmes for BEng (Industrial Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).

Careers: Chemical engineers are involved in industrial processes that convert raw materials to products with a higher economic value. This is achieved by means of physical, chemical, biochemical and mechanical changes and processes. Chemical engineers apply their specialised knowledge in the petroleum, food, medicinal, processing, paper and pulp industries, water and effluent treatment, and environmental engineering activities, including air pollution control. Like those in other engineering disciplines, decisions are involved in research and development, technical-economic evaluation, equipment and plant design, process control and optimisation, construction, commissioning, operation and management, and the marketing and distribution of the final products.

The suggested second-choice programmes for BEng (Civil Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).

Careers: Civil engineers design, build and maintain constructions such as tower blocks and skyscrapers, dams, bridges and pipelines, roads, bridges, tunnels, railways, airports, power stations, waterways and oil pipelines. They are involved in financial modelling, feasibility studies and the management and rehabilitation of large asset portfolios.

The suggested second-choice programmes for BEng (Electrical Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).

Careers: 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, industrial areas, commercial buildings, factories, mines and industries, rail transport, water pumping, electrical grids, telecommunications, energy management and smart lighting in all within the scope of electrical engineering.

The suggested second-choice programmes for BEng (Electronic Engineering) are BSc (Chemistry), BSc (Mathematics) and BSc (Physics).

Careers: Electronic engineers are active in various fields, such as telecommunications (fixed networks, wireless telecommunication, radio, television, satellite communications), entertainment and medicine (image processing, tomography, biology, psychology, speech recognition, video and audio compression), automotive (weather tracking, on the road, traffic and transportation), military and warfare (missiles, nuclear power stations, submarines, nuclear engineering, environmental monitoring, tourism and many more).

Closing dates: 1 SA – 31 May • Non-SA – 31 May 2 SA – 30 June • Non-SA – 30 June 3 SA – 30 September • Non-SA – 31 August

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

**Important information on undergraduate programmes for 2021**

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

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

**Programmes**

<table>
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<tr>
<th>Programmes</th>
<th>Minimum requirements for 2021*</th>
<th>Achievement level</th>
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<td>English Home Language or English First Additional Language</td>
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For admission to the Bachelor of Science in Quantity Surveying, a candidate should obtain an APS of between 25 and 27, consideration for admission will be based on the results of the NSC, provided that the student numbers for designated groups have not been reached.

**Careers:** Quantity surveying is the science that delivers specialised financial and contractual services and advice to clients in the building and construction industry, as well as related industries. The three-year undergraduate degree is the first step towards registration as a quantity surveyor. The ensuring one-year honours programme leads to registration as a candidate professional quantity surveyor. Career opportunities, apart from those in the private, government or semi-government sectors, also exist in the property, banking, mining and manufacturing industries.

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Faculty of Humanities

Important information on undergraduate programmes for 2021

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

Notes on the NBT:

- If you are interested in a non-selection programme, you may be required to write the NBT (www.nbt.ac.za) and you need to pass the Academic Literacy Test with at least 36.
- If you have been conditionally admitted, but obtained an APS of 26 or 27 in the NSC, you may be considered for admission by the Admissions Committee of the Faculty of Humanities, subject to the availability of space and the results of the National Benchmark Test (NBT).

University of Pretoria website
National Benchmark Test website
www.up.ac.za/faculty-of-humanities
www.nbt.ac.za

Programmes

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<th>Programme</th>
<th>Minimum requirements for 2021*</th>
<th>Achievement level</th>
<th>APS</th>
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<td>NSC/IEB</td>
<td>AS Level</td>
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**SELECTION PROGRAMMES**

BA (Speech-Language Pathology) 2  
(4 years)

For admission, you must write the NBT. For advice on a second-choice programme, please consult the Programme Manager at +27 (012) 420 3614. Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 30 in the NSC. The conditional selection process starts in July each year. For more information, please contact the programme coordinator at +27 (012) 420 3614. For the Audiology and Speech-Language Pathology programme, the first study year is the same and the NBT is not required.

Note: We will consider both first- and second-choice applications.

Careers: Work in education and special education, hospitals, clinics or rural communities, or in private practices, government, military and academic institutions (teaching and research)

BA (Audiology) 2  
(4 years)

For admission, you must write the NBT. For advice on a second-choice programme, please consult the Programme Manager at +27 (012) 420 6774. Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 30 in the NSC. The conditional selection process starts in July each year. For more information, please contact the programme coordinator at +27 (012) 420 6774. For the Audiology and Speech-Language Pathology programme, the first study year is the same and the NBT is not required. Note: We will consider both first- and second-choice applications.

Careers: Diagnostic and rehabilitative audiometry, audiology and hearing therapy, work in education, special education, hospitals, clinics, private practice or government, military and academic institutions (teaching, research) and industry

BA (Fine-Arts) 2  
(4 years)

For admission, you must write the NBT. For advice on a second-choice programme, please consult the Programme Manager at +27 (012) 420 6783. For the BA (Arts) programme, the NBT is not required. To retain admission, you must obtain an APS of at least 28 in the NSC. The selection process has two stages: submission of a portfolio of at least 20 recent works, which must be sent to the Department of Visual Arts by 30 June. The Department will use your portfolio, your academic merit score and a letter from your school to determine if you are eligible for the final selection process. Please submit your online application on the UP Portal at least two weeks before 30 June.

- The final selection process takes place in July and consists of an interview and selection tests. Detailed information about the selection steps, including the portfolio requirements and the questionnaire, can be obtained at www.up.ac.za/faculty-of-humanities/
- You will be notified by email and/or SMS if you qualify for the final selection process.

Careers: Gallery managers, art facilitators, art consultants/advisors, art educators, artists in the fine arts, artists in new media, artists in applied arts

BSocSciHons (Creative Writing) 2  
(4 years)

For admission, you must write the NBT. For advice on a second-choice programme, please consult the Programme Manager at +27 (012) 420 3194/3688. To retain admission, you must obtain an APS of at least 28 in the NSC. The selection process has two stages: submission of a portfolio of at least 20 recent works, which must be sent to the Department of Visual Arts by 30 June. The Department will use your portfolio, your academic merit score and a letter from your school to determine if you are eligible for the final selection process. Please submit your online application on the UP Portal at least two weeks before 30 June.

- The final selection process takes place in July and consists of an interview and selection tests. Detailed information about the selection steps, including the portfolio requirements and the questionnaire, can be obtained at www.up.ac.za/faculty-of-humanities/
- You will be notified by email and/or SMS if you qualify for the final selection process.

Careers: Animators, graphic designers, illustrators, interaction designers, communication designers, art directors, multimedia producers, management artists, graphic designers, media designers or freelance designers; typographers for advertising and branding agencies, production artists, industrial designers, 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

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

**Important information on undergraduate programmes for 2021**

- The Faculty offers the following undergraduate programmes:
  - Bachelor of Veterinary Science (BVSc)
  - Bachelor of Veterinary Nursing (BVetNurs)
- Both undergraduate programmes in this Faculty include selection procedures, which are based on merit within different categories.
- The final number of places offered to applicants is determined by the Admissions Committee, taking into account the teaching facilities and available resources.
- In order to retain conditional admission applicants need to comply with the minimum subject requirements based on their final school-year examination results.
- South African school-leaving applicants enrolled for the NSC or IEB who have forfeited their placement and who still comply with the minimum requirements will automatically be considered in the second round of selection in January.

**University of Pretoria website**

www.veterinary.up.ac.za

vetug@up.ac.za

**Enquiries**

www.veterinary.up.ac.za

vetug@up.ac.za

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**Minimum requirements for 2021**

<table>
<thead>
<tr>
<th>Programme</th>
<th>English Home Language or English First Additional Language</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>APS</th>
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<tbody>
<tr>
<td>BVSc (6 years)</td>
<td>NSC/IEB</td>
<td>NSC/IEB</td>
<td>NSC/IEB</td>
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<tr>
<td>BVetNurs (3 years)</td>
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<td>28</td>
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* Cambridge A level candidates who obtained at least A and International Baccalaureate (IB) HL candidates who obtained at least 4 in the required subjects, will be considered for admission.

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**Closing dates:**

- **SA – 31 May**
- **Non-SA – 31 May**
- **SA – 30 June**
- **Non-SA – 30 June**
- **SA – 30 September**
- **Non-SA – 31 August**

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**Programmes**

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<th>Achievement level</th>
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<td><strong>Programmes</strong></td>
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<tr>
<td>NON-SELECTION PROGRAMMES</td>
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<tr>
<td>BA (Law) 3</td>
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<td>English Home Language or English First Additional Language</td>
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<td>Mathematics</td>
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<td>NSC/IEB AS Level</td>
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<tr>
<td>BSocSci (Industrial Sociology and Labour Studies) 3</td>
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<td>NSC/IEB AS Level</td>
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* Cambridge A level candidates who obtained at least A and International Baccalaureate (IB) HL candidates who obtained at least 4 in the required subjects, will be considered for admission.
The following persons will be considered for admission: candidates who are in possession of a certificate that deemed the person to be equivalent to the required National Senior Certificate with university endorsement, candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.

Life Orientation is excluded from the calculation of the Admission Point Score (APS).

Grade 11 results are used for the conditional admission of prospective students. Final admission is based on Grade 12 results.

Please note that the Faculty does not accept GED and School of Tomorrow qualifications for entry into our programmes.

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

Minimum requirements for 2021*

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<th>BSc (Genetics)</th>
<th>BSc (Human Genetics)</th>
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This programme is not available for students who meet all the requirements for the corresponding mainstream programme. Note: Only students who apply in the final year of their NSC or equivalent qualification, will be considered for admission into any of the BSc – Extended programmes.
Candidates who do not comply with the minimum admission requirements for the abovementioned Agricultural and Food Sciences programmes may be considered for admission to the BSc – Extended programme – Biological and Agricultural Sciences, which requires an additional year of study.

This programme is not available for students who meet all the requirements for the corresponding mainstream programme. Note: Only students who apply in the final year of their NSC or equivalent qualification will be considered for admission into any of the BSc – Extended programmes.

Programmes

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<td>BSc Culinary Science (4 years)</td>
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<td>*Replaced BSc (Food Management) in 2017</td>
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<tr>
<td>The suggested second-choice programmes for BSc (Culinary Science) are BComSci (Hospitality Management), BSc (Food Science) and BSc (Nutrition)</td>
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CAREERS: 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.

BSc (Food Science) 3 (4 years)

The suggested second-choice programmes for BSc (Food Science) are BSc (Nutrition) and BSc (Biological Sciences).

CAREERS: Food scientists with highly marketable training and professional skills work as food risk investigators, quality safety assurance managers, food chemists, food technologists, 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.

BSc (Nutrition) 3 (4 years)

The suggested second-choice programmes for BSc (Nutrition) are BSc (Food Science), BSc (Biochemistry), BSc (Microbiology) and BSc (Biological Sciences).

BSc (Nutrition) is an interfaculty degree programme, jointly presented by Food Science (Faculty of Natural and Agricultural Sciences) and Human Sciences (Faculty of Health Sciences).

CAREERS: 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-related industries (such as pharmaceutical companies) within government departments; international organisations (such as the United Nations Food and Agricultural Organisation (FAO) and the World Health Organisation (WHO)) and research organisations, and as account managers and advisors in the food, health and consumer sectors.

BSc Agricultural Economics and Agribusiness Management 3 (4 years)

The suggested second-choice programme for BScAgri (Agricultural Economics and Agribusiness Management) is BComAgri (Business Management).

CAREERS: 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 financial affairs; and providing advice 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 value chains.

Employment opportunities for agricultural economists include employment in the government, commercial banks, multinational agribusiness companies, farmer cooperatives, trading houses, food processors and manufacturers, and research councils. An agricultural economist is, therefore, someone who is interested in the mathematics, business, science, and human side of agriculture.

BScAgri (Animal Science) 3 (4 years)

The suggested second-choice programmes for BScAgri (Animal Science) are BSc (Biological Sciences) and BSc (Zoology).

CAREERS: Animal science is focused on the application of the scientific aspects of animal production and the quality control of products to ensure consumer satisfaction and careers in this field make an important contribution to agriculture in South Africa. Based on the most recent research and the needs of both animals and humans, animal science focuses on the entire livestock production value chain, from conception to consumption. There are 2 parallel career opportunities for animal and wildlife scientists in research, commercial farming and the public sector, and for professionals in the animal science industry. Animal scientists can work on different levels in these sectors, eg as researchers or consultants on animal nutrition or breeding, technical representatives, managers of intensive and extensive animal production systems and poultry and pigs. BScAgri (Animal Science) degree is acknowledged as a professional qualification by SACOP in terms of Act 106 of 1993, and is internationally recognised, which means that graduates can register as professional animal scientists.

Programmes

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<tr>
<td>BScAgri (Plant Pathology) 3 (4 years)</td>
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The suggested second-choice programmes for BScAgri (Plant Pathology) are any of the programmes listed in the biological or agricultural and food science programmes.

CAREERS: Graduates could be employed as seed cultivators, farmers, researchers, lecturers or consultants.

BScAgri (Applied Plant and Soil Sciences) 3 (4 years)

The suggested second-choice programmes for BScAgri (Applied Plant and Soil Sciences) are any of the programmes listed in the biological or agricultural and food science programmes.

CAREERS: 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:

Public sector: The ARC, Department of Water and Sanitation, Department of Environmental Affairs, Department of Tourism, Department of Agriculture, Forestry and Fisheries, Department of Mineral Resources, Department of Energy, the CSIR, provincial agriculture and nature conservation departments, SANBI, municipalities, South African National Parks, national farming and food production agencies

Private sector: Companies involved in seed, fertiliser and plant protection research and development, environmental planning and management, nurseries, vegetable, fruit and ornamental cut-flower production and irrigation

Extension services involving knowledge transfer: Nature conservation, national and provincial departments of agriculture and the environment, environmental management and rehabilitation, nurseries, crop, turf grass and weed management, private companies servicing field crops, vegetables, medicinal and aromatic plants, fruit, ornamental and cut-flower production

Entrepreneurial: Consultants in crop, pasture, vegetable, medicinal and aromatic plants, ornamental and cut-flower production systems and landscaping enterprises, managing own farms and nurseries for extensive field or intensive (greenhouse) production systems involving various crops, and managing companies specialising in irrigation, reclamation and soil conservation respectively.

BSc – Extended programme – Biological and Agricultural Sciences 4 D 4 D 4 D 26
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).

Careers: 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 technology development. Chemists are employed in a wide variety of enterprises both in 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 education obtained. Advancement will usually result in a position in research, development, production management and require management and financial planning skills. Many career opportunities exist in industries, for example renewable energy, environmental protection, food and beverages, energy, water, health, sports, pharmaceuticals and cosmetics, geology, mining and law enforcement. These include the following professions: chemical engineers, chemists, environmental chemists, toxicologists, forensic chemists, analytical chemist, drug analyst, patent lawyer, environmental chemist, geochemist, food chemist, polymer chemist, and environmental chemist.

BSc (Physics) (3 years)

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).

Careers: 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 Fusion Centre in South Africa (NFCSA), the South African Astronomical Observatory (Thumla LABS) (Laboratory for Accelerator-based Sciences), researchers in industry, for example the CSIR or Element Six, advise on non-governmental organisations, industry or government, radiation scientists, medical scientists and biophysicists, atmospheric scientists and climatologists, developers of renewable energy sources, geophysicists, and environmental and computational scientists. International collaboration also takes place with experts from abroad.

BSc (Geography and Environmental Sciences) (3 years)

The suggested second-choice programme for BSc (Geography and Environmental Sciences) is BSc (Meteorology).

Note: This programme will replace the BSc (Geography) and the BSc (Environmental Sciences) programmes from 2021.

Careers: There are three main career fields in geography: teaching, research and the practical application of geographical knowledge and skills. Geographers can focus on environmental management, urban issues such as the management of urban and rural areas, the monitoring of pollution and the management of ecosystems through activities such as mining, agriculture and tourism. Geographers in the private sector are generally employed by research organisations, banks, mining firms, banks, tourism organisations, environmental conservation bodies and government. Industries involved in forestry, water and land resources management, the design and construction of dams, tunnels and bridges, and the construction of new urban areas employ geographers. Once qualified, they are usually employed in areas such as natural resources management, land management, tourism and recreation, environmental planning and design, land use planning, water resources management, and urban and regional planning.

BSc (Geomatics) (3 years)

The suggested second-choice programme for BSc (Geomatics) is BSc (Geography and Environmental Sciences).

Careers: Graduates are employed in areas such as agriculture, mineral exploration, engineering, forestry, water resource management, weather forecasting, environmental impact assessment (EIA), land-use planning, landscaping, management (e.g. tourism, recreation), market research, traffic studies, urban and regional planning, vehicle tracking, cartography, GIS technology, environmental planning and analysis, and disaster and environmental management. Graduates can apply for professional registration as GIS technologists with the South African Geomatics Council (SAGC).

BSc (Geology) (3 years)

The suggested second-choice programme for BSc (Geology) are BSc (Engineering and Environmental Geology), BSc (Physics) and BScAgric (Aplplied Plant and Soil Sciences).

Careers: Large international mining companies are major employers of geologists and other geoscientists in research, exploration and mining projects. However, employment is increasingly to be found in smaller, entrepreneurial firms (junior's). Interesting careers are also offered by the Council for Geoconservation, the CSIR, and the Council for Mineral Technology (MINTech), the Department of Water and Sanitation, and at museums, engineering firms and consulting companies. Graduates may even operate as self-employed consultants in their own business. Specialised monitoring and environmental management skills are in demand by the mining, construction, agriculture and power generation sectors, and the mining, environmental and other sectors. Geologists are usually employed in the mining industry as exploration and geotechnical geologists, in mining and environmental consulting firms. The geological survey workforce is employed in diverse areas such as mineral exploration, mining, environmental protection, and environmental management.

BSc (Meteorology) (3 years)

The suggested second-choice programme for BSc (Meteorology) is BSc (Geography and Environmental Sciences).

Careers: Meteorologists are employed by institutions involved in the study, interpretation and prediction of weather and climate-related phenomena, for example South African Weather Service (SAWS), for the same universities, agricultural institutions and general industries employ meteorologists who practise mainly as specialists or forecasters. Researchers: They research all aspects of the weather and climate in order to improve man's understanding of atmospheric phenomena. They develop and apply computer models to solve complex physical equations of the atmosphere. The monitoring of air quality and the monitoring of the impact of air pollution on society are two important aspects that need to be addressed. Research on climate change is receiving increasing international attention.

Weather forecasters: It is the duty of the weather forecaster to analyse data and predict the weather by using models that are based on mathematical theories. Weather forecasts are based on different models, from very short-range forecasting to forecasts that are valid for months ahead, as well as seasonal forecasts. It is the duty of the forecasting officer to assimilate the weather forecasts and make the weather forecasts available to the public.

Climatologists: They manage important data sets that contain large volumes of information gathered by the Bureau of Meteorology and other organisations.

Consultants: Some meteorologists who work as consultants in the private sector and at universities provide research on climate change, environmental policy and climate-related issues.

Lecturers: A few academic positions for meteorologists and climatologists are available at South African universities and institutions.

Programme requirements: Minimum requirements for 2021* Achievement level

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<th>Physical Sciences</th>
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<td>BSc (Engineering and Environmental Geology)</td>
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* Cambridge A level and International Baccalaureate HL candidates, please read the Note in the shaded block at the top of page 5.
Faculty of Health Sciences

Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: a candidate who is in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; a candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution; a candidate who is a graduate of another Faculty at the University of Pretoria; and a candidate who is currently studying at a university.

- Selection queries may be directed to healthapplications@up.ac.za.

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

Faculty of Theology and Religion

Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who have a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution; and candidates who are graduates of another faculty at the University of Pretoria.

University of Pretoria website www.up.ac.za/theology
National Benchmark Test website www.nbt.ac.za
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- improve your marks in Mathematics and Physical Sciences;
- make responsible study and career choices; and
- be prepared for the demands of your chosen programme.

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Grade 11 Summer School (Mathematics and Physical Sciences):
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Learners from Grade 9 to 12 are welcome to join JuniorTukkie
- Download the web-based JT App: juniortukkieapp.co.za
- On the JT App, go to: JuniorTukkie > Become a JuniorTukkie
- Complete the JT Membership Form

Once you are a JuniorTukkie member, you will be invited to apply for attendance* of any of the following events:
- Preparation Conference for Grade 12 learners
- Faculty information sessions for Grade 11 to 12 learners and their parents
- Information sessions for Grades 9, 10 and 11 learners and their parents
- The ‘Walk-the-Talk with UP’ day for Grade 10 learners and their parents
- Welcome function for new first-year UP students (JT members).

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

Contact JuniorTukkie
Tel +27 (0)12 420 6606
Email junior.tukkie@up.ac.za
Website www.up.ac.za/juniortukkie