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

<table>
<thead>
<tr>
<th>Location</th>
<th>Postal address</th>
<th>Student Service Centre</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Pretoria</td>
<td>University of Pretoria Private Bag X20 Hatfield 0028 South Africa</td>
<td>Tel +27 (0)12 420 3111 Email <a href="mailto:ssc@up.ac.za">ssc@up.ac.za</a> Website <a href="http://www.up.ac.za">www.up.ac.za</a></td>
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University of Pretoria banking details

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Minimum admission requirements

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National Senior Certificate (NSC) seven-point rating scale

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Universities South Africa (USAf)

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| Fax | +27 (0)12 481 1292 (International Only) |
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| Website | http://he-enrol.ac.za or https://mb.usa.f.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 |

Download the JT APP at juniortukkie@up.ac.za

Apply for JT membership via the JT App:

On the JT App, choose ‘JuniorTukkie’, then ‘Become a JuniorTukkie’

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Undergraduate achievement awards are made automatically to newly registered undergraduate students who meet the award conditions. Students who are 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.

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.

The awards are cancelled or adjusted upward/downward to align it with consecutive study programmes enrolled for initially will remain unchanged. That is to say, the award will not be cancelled or adjusted upward/downward to align it with consecutive study programmes enrolled for.

Be sure to read about all the various funding opportunities on www.up.ac.za/fees-and-funding.

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>Residence placement</th>
<th>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.</th>
<th>Guarantee 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.</th>
<th>75%-100%</th>
<th>85%-100%</th>
<th>FACULTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>75%-100%</td>
<td>Guaranteed</td>
<td>Guaranteed</td>
<td>75%-79.99%</td>
<td>85%-84.99%</td>
<td>80%-84.99%</td>
<td>85%-89.99%</td>
<td>Natural and Agricultural Sciences AND Engineering, Built Environment and Information Technology</td>
</tr>
<tr>
<td>80%-84.99%</td>
<td>R6 500</td>
<td>R16 000</td>
<td>80%-84.99%</td>
<td>85%-89.99%</td>
<td>85%-89.99%</td>
<td>R25 000</td>
<td>Health Sciences AND Veterinary Science</td>
</tr>
<tr>
<td>85%-89.99%</td>
<td>R6 500</td>
<td>R16 000</td>
<td>85%-89.99%</td>
<td>90%-100%</td>
<td>90%-100%</td>
<td>R25 000</td>
<td>Other faculties</td>
</tr>
<tr>
<td>90%-100%</td>
<td>R40 000</td>
<td>R25 000</td>
<td>90%-100%</td>
<td>-</td>
<td>-</td>
<td>R40 000</td>
<td>-</td>
</tr>
</tbody>
</table>

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

Conditions
- Fly@UP Assist 1st Year awards are based on the average percentage obtained (not on the number of distinctions).
- Undergraduate achievement awards are made automatically to newly registered undergraduate students who meet the award conditions. Students do not apply for these awards.
- First-year students who register for studies at UP directly after Grade 12 (final school-year) or who took a gap year(s) after their final school-year, who meet the award conditions, will be considered.
- Students who have previously registered at a tertiary educational institution prior to registration at UP will not be considered for Fly@UP Assist 1st Year award. Students who registered at UP in previous years, are also not considered.
- Qualifying students must be South African citizens or permanent residents in South Africa, or be citizens of a SADC country.
- The average percentage for award purposes is the average of the actual percentages obtained for the six (6) best NSC/IEB/Cambridge subjects taken, excluding Life Orientation. This is for subjects taken in the final school-year end exams, based on the calculations done by the University of Pretoria. The average percentage is not rounded off.
- Certain subjects are EXCLUDED in the calculation of average percentages.
  - Life Orientation
  - Mathematics Paper 3
  - Additional Mathematics
  - Practical Music Grade 4 and 5 (Note: Practical Music Grades 6, 7 and 8 are considered for inclusion in the calculation of the average percentage – if your music report for this subject is not part of your NSC report, please submit your official music report to your faculty’s student administration offices, before 28 January for consideration.)
- The awards are finalised on the basis of the final marks that the University receives from the Department of Basic Education for the final school-year. Results obtained for papers that have been re-marked are not taken into account for award purposes.
- Awards are fully repayable if students discontinue or terminate their studies in the relevant study programme for whatever reason during the year in which the award is made.
- If students change their study programmes during the year in which the award is made, the award value allocated for the study programme enrolled for initially will remain unchanged. That is to say, the award will not be cancelled or adjusted upward/downward to align it with consecutive study programmes enrolled for.

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.nofs.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

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.
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.

**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

**2. 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.

**3. 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-selección 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.

**4. 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.

**5. 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 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.

**Other bursary options**

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

## National Benchmark Test (NBT)

The National Benchmark Test is not compulsory for all programmes.

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

## How to access the UP Student Portal

Go to www.up.ac.za and click on My UP Login.

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

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

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

## 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.

## 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.
- More information is available at www.up.ac.za/fees-and-funding.

## Orientation for new first-year students

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

## 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.
• Remember that admission to your second-choice programme does not guarantee later admission to your first choice of programme.

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

- Faculty of Engineering, Built Environment and Information Technology
- Faculty of Health Sciences
- Faculty of Natural and Agricultural Sciences
- Faculty of Veterinary Science

- Cambridge A Level candidates who obtained at least a D in the required subjects will be considered for admission. Students in the Cambridge system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences.
- International Baccalaureate (IB) HL candidates who achieved at least a 4 in the required subjects will be considered for admission. Students in the IB system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences.

Faculty of Education

Important information on undergraduate programmes for 2021

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

University of Pretoria website www.up.ac.za/education
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><strong>Achievement Level</strong></td>
</tr>
<tr>
<td>BEd (Foundation Phase Teaching) 3</td>
<td>[Pre-primary to Grade 3] (4 years)</td>
</tr>
</tbody>
</table>

The suggested second-choice programmes for BEd (Foundation Phase Teaching) (pre-primary to Grade 3) are any other BEd programme.

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

BEd (Intermediate Phase Teaching) 3 | [Grades 4 to 6] (4 years) | 4 D (26–27 admission based on the NBT) |

The suggested second-choice programmes for BEd (Intermediate Phase Teaching) (Grades 4 to 6) are any other BEd programme.

Careers: Teachers and training officials in primary schools

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Minimum requirements for 2021*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Achievement Level</strong></td>
</tr>
<tr>
<td>BEd (Senior Phase and Further Education and Training Teaching) 3</td>
<td>[Grades 7 to 12] (4 years)</td>
</tr>
</tbody>
</table>

An additional subject requirement for elective modules in Economic and Management Sciences is Mathematics, passed with an achievement level of 4 (50%–59%) in Grade 12. Additional subject requirements for elective modules in Physical Sciences or Life Sciences are Physical Sciences, passed with an achievement level of 5 (60%–69%), and Mathematics passed with an achievement level of 5 (60%–69%) in Grade 12.

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

Careers: Teachers and training officials in primary or secondary schools


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

Selection process:
- Applicants who indicate the Higher Certificate in Sports Science Education as their first- or second-choice will be considered.
- All applicants will be considered by the Student Administration of the Faculty based on the academic admission requirements.
- 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.
- After the successful completion of the Higher Certificate in Sports Science Education, applicants who had obtained only an Admission to Diploma studies endorsement at the end of Grade 12 may be considered, based on their academic performance, for admission to the BEd (Senior Phase and Further Education and Training Teaching) degree, with specialisation in the elective combination of Human Movement Studies and Sports Management. These applications are subject to approval by the Faculty Board and Senate.
- Careers: Sports coaching, sports and exercise industry

* Cambridge A Level candidates who obtained at least a D and International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.
Faculty of Economic and Management Sciences

Important information on undergraduate programmes for 2021

- The following persons will be considered for admission: Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the National Senior Certificate (NSC) with admission to bachelor's degree studies; candidates who are graduates 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

### Minimum requirements for 2021*

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Achievement level</th>
<th>English Home Language or English First Additional Language</th>
<th>Mathematics</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCom (Accounting Sciences)</td>
<td>3 (3 years)</td>
<td>S, C, 6, B</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>BCom (Innovation Management)</td>
<td>3</td>
<td>S, C, 6, B</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>BCom (Financial Sciences)</td>
<td>3</td>
<td>S, C, 5, C</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>BCom (Economics)</td>
<td>3</td>
<td>S, C, S, B</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>BCom (Law)</td>
<td>3</td>
<td>S, C, S, C</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>BCom (Statistics and Data Science)</td>
<td>3</td>
<td>S, C, S, C</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>BCom (Human Resource Management)</td>
<td>3</td>
<td>S, C, 4, D</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>BCom (Marketing Management)</td>
<td>3</td>
<td>S, C, 4, D</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>BCom (Supply Chain Management)</td>
<td>3</td>
<td>S, C, 4, D</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>BCom (Public Management and International Relations)</td>
<td>3</td>
<td>S, C, 4, D</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

*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.

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

**Minimum requirements for 2021**

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Achievement level</th>
<th>English Home Language or English First Additional Language</th>
<th>Mathematics</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCom (Innovations)</td>
<td>3</td>
<td>S, C, D</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>BCom (Supply Chain Management)</td>
<td>3</td>
<td>S, C, D</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>BCom (Public Management and International Relations)</td>
<td>3</td>
<td>S, C, D</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

### Programmes

- **BCom (Accounting Sciences)**
  - Focus area: Information Systems
  - Focus area: Information Systems

- **BCom (Innovation Management)**
  - Focus area: Business Analytics

- **BCom (Financial Sciences)**
  - Focus area: Financial Analysis

- **BCom (Economics)**
  - Focus area: Economic Development

- **BCom (Law)**
  - Focus area: International Law

- **BCom (Statistics and Data Science)**
  - Focus area: Data Science

- **BCom (Human Resource Management)**
  - Focus area: Organisational Behaviour

- **BCom (Marketing Management)**
  - Focus area: Marketing Strategy

- **BCom (Supply Chain Management)**
  - Focus area: Supply Chain Management

- **BCom (Public Management and International Relations)**
  - Focus area: Public Administration

### 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

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.

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.

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.
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 admission 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.nbt.ac.za

Programmes Minimum requirements for 2021* Achievement level

<table>
<thead>
<tr>
<th>SCHOOL OF ENGINEERING</th>
<th>English Home Language or English First Additional Language</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEng (Engineering) 7</td>
<td>NSC/IEB</td>
<td>AS Level</td>
<td>NSC/IEB</td>
<td>AS Level</td>
</tr>
</tbody>
</table>

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

- Careers: 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.

| BEng (Chemical Engineering) 3 | 5 | C | 6 | B | 6 | B | 6 | 35 |

The suggested second-choice programmes for BEng (Chemical 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, manufacturing, pharmaceutical, paper and pulp industries, water and efficient treatment, and environmental engineering activities, including air pollution control. Like those in other engineering disciplines, chemical engineers are involved in research and development, testing, environmental impact evaluation, equipment and plant design, process control and optimisation, construction, commissioning, operation and management, and the marketing and distribution of the final products.

| BEng (Civil Engineering) 3 | 5 | C | 6 | B | 6 | B | 6 | 35 |

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, tunnels, railways, airports, power stations, towers, waterways and oil and gas installations. They are involved in financial modelling, feasibility studies and the management and rehabilitation of large asset portfolios.

| BEng (Electronic Engineering) 3 | 5 | C | 6 | B | 6 | B | 6 | 35 |

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 installation and maintenance of equipment, and opt 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.

| BSc (Mathematics) | 5 | C | 6 | B | 6 | B | 6 | 35 |

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

| BSc (Architecture) 3 | 5 | C | 6 | B | 6 | B | 6 | 35 |

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

Note: The admission requirements above are relevant to prospective students who will commence their studies in 2021. Candidates who do not comply with the minimum admission requirements for the four-year programmes, but who comply with the minimum admission requirements for ENGAGE, must write the NBT.

Programmes Minimum requirements for 2021* Achievement level

<table>
<thead>
<tr>
<th>SCHOOL FOR THE BUILT ENVIRONMENT</th>
<th>English Home Language or English First Additional Language</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Architecture) 3</td>
<td>NSC/IEB</td>
<td>AS Level</td>
<td>NSC/IEB</td>
<td>AS Level</td>
</tr>
</tbody>
</table>

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

Will only be considered as first study choice. Selection programme: Selection includes an interview.

- Careers: The BSc (Architecture) degree programme enables graduates to register with the South African Council for the Built Environment Professions (SACAP) as candidate architectural technologists. The qualification is the first step to future registration as a candidate senior architectural technologist or a candidate architect.

| BSc (Construction Management) 3 | 5 | C | 5 | C | 4 | D | 27 |

The suggested second-choice programme for BSc (Construction Management) is BSc (Real Estate).

- Careers: After completing the three-year undergraduate degree programme, graduates could enter careers in various fields, including construction site management or subcontracting. On completion of the ensuing one-year honours programme, graduates are able to register as professional construction managers and opportunities become much wider, including site management, project management, portfolio management, commercial marketing and managerial positions in the corporate environment.

| BSc (Real Estate) 3 | 5 | C | 5 | C | 4 | D | 27 |

The suggested second-choice programme for BSc (Real Estate) is BSc (Investment Management).

- Careers: Apart from a future in areas such as property investment, property finance and facilities, and property management, further studies to obtain an honours degree in real estate can lead to registration as a professional property valuer. Career opportunities include property consultants or speculators in the private sector or as employees in the private, government or semi-government sectors.
Programmes | Minimum requirements for 2021* | Achievement level |
--- | --- | ---
**SCHOOL OF THE BUILT ENVIRONMENT** | **English Home Language or English First Additional Language** | **Mathematics** | **Physical Sciences** | **APS** |
BSc (Quantity Surveying) | 3 years | 5 C | 5 C | or Accounting | 4 D | 30

The suggested second-choice programmes for BSc (Quantity Surveying) are BSc (Construction Management) and BSc (Real Estate).

**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 ensuing 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.

BTRP – Bachelor of Town and Regional Planning | 3 years | 5 C | 4 D | 27

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

**Careers**: 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.

**School of Information Technology** | **English Home Language or English First Additional Language** | **Mathematics** | **APS** |
BIF (Information Systems) | 3 years | 5 C | 4 D | 30

The suggested second-choice programmes for BIF (Information Systems) are BIS (Information Science) and BCom (Informatics).

Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Data scientist, IT auditor, geographic information specialist, IT entrepreneur, IT specialist, e-business consultant, programmer, business analyst, project manager, COO, CTO and knowledge manager

BSc (Computer Science) | 3 years | 5 C | 5 C | 30

The suggested second-choice programmes for BSc (Computer Science) are BSc (Information and Knowledge Systems) and BCom (Informatics).

Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Programmers, systems analysts, system architects, consultants, database administrators, network analysts and researchers

BIS (Multimedia) | 3 years | 4 D | 5 C | 30

The suggested second-choice programmes for BIS (Multimedia) are BIS (Information Science), BSc (Publishing) and BSc (Computer Science).

Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Programmers, web designers, animation specialists, video editors and electronic artists. The programme prepares candidates for positions at any of the following careers: producing 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.

BSc (Information and Knowledge Systems) | 3 years | 4 D | 5 C | 30

The suggested second-choice programme for BSc (Information and Knowledge Systems) is BSc (Computer Science).

Should a candidate obtain an APS of between 26 and 29, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Graduates will differentiate themselves in an application environment by choosing one of the following options: data science, geomatics, geographical information systems, IT and enterprises, IT and law, IT and music or software development.

BIS (Information Science) | 3 years | 4 D | - | 28

The suggested second-choice programmes for BIS (Information Science) are BIS (Publishing), BCom (Informatics) and BIF (Publishing).

Should a candidate obtain an APS of between 25 and 27, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Information and knowledge managers (manage information and knowledge resources), information or e-commerce specialists (organise, retrieve and add value to information), consultants on information products (services and systems), information brokers (act as infopreneurs and buy and sell information products and services), and system specialists/analysts/technologists (develop information systems)

BIF (Publishing) | 3 years | 5 C | - | 28

The suggested second-choice programmes for BIF (Publishing) are BIS (Information Science), BA (Languages) and BSc (Publishing).

Should a candidate obtain an APS of between 25 and 27, consideration for admission will be based on the results of the NBT, provided that the student numbers for designated groups have not been reached.

**Careers**: Immediate and long-term opportunities include publishing firms, newspaper and magazine publishers, book publishers, book distributors, bookstores, libraries, media companies, government agencies and research organisations.

BCom (Informatics) | Focus area: Information Systems | 3 years | 5 C | 4 D | 30

This programme is administered by the Faculty of Economic and Management Sciences.

* 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.

**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

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### 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

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### Programmes

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Minimum requirements for 2021*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum requirements for 2021</strong></td>
<td><strong>Achievement level</strong></td>
</tr>
<tr>
<td>English Home Language or English First Additional Language</td>
<td>Mathematics</td>
</tr>
</tbody>
</table>

**BCom (Law) 3**

3 years

| 5 C | 4 D | 30

The suggested second-choice programmes for LLB are BA (Law) and BCom (Law).

**BA (Law) 3**

3 years

| 5 C | 32**

**Laws**

3 years

| 5 C | 32**

The suggested second-choice programmes for BA (Law) applications can be directed to: Ms Helen van Tonder (Faculty of Law)

Tel +27 (0)12 420 2090

Fax +27 (0)12 420 4390

Email helen.vantonder@up.ac.za

**BCom (Law) 3**

3 years

| 5 C | 32**

The suggested second-choice programmes for BCom (Law) applications can be directed to: Ms Ronel Steenkamp (Faculty of Economic and Management Sciences)

Tel +27 (0)12 420 3347

Fax +27 (0)12 420 6540

Email ronel.steenkamp@up.ac.za

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* 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.
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 recognized national matriculation of the subject countries and candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional admission of prospective students.
- A valid qualification with admission to degree studies is required.

Notes on the NBT:
- If you are interested in a non-selection programme, you may be required to write the NBT (www.nbt.ac.za) and you need to pass the Academic Literacy Test with at least 46.
- If you have been granted conditional admission, but obtained an APS of 26 or 27 in the NSC, you may be considered for admission by the Admissions Committee of the Faculty of Humanities, subject to the availability of space and the results of the National Benchmark Test (NBT).

University of Pretoria website
National Benchmark Test website

www.up.ac.za/faculty-of-humanities
www.nbt.ac.za

Programmes

<table>
<thead>
<tr>
<th>Programme</th>
<th>Minimum requirements for 2021*</th>
<th>Achievement level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>English Language Home, English First</td>
<td>APS test</td>
</tr>
<tr>
<td>NSC/IEB</td>
<td>AS Level</td>
<td>NSC/IEB</td>
</tr>
</tbody>
</table>

**SELECTION PROGRAMMES**

BA (Speech-Language Pathology) 1  4 years

For admission to the second-choice programme, please consult the Programme Manager at +27 (0)12 420 3614.

Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 26 in the NSC. The conditional selection process starts in July each year. For more information, please contact the Programme Coordinator at +27 (0)12 420 3614. For the Audiology and Speech-Language Pathology programme, the first study year is the same and the NBT is not required.

Note: We will consider both first- and second-choice applications for BA (Speech-Language Pathology).

Counsellors work in education and special education, hospitals, clinics or rural communities, or in private practices, government, military and academic institutions (teaching and research) and industry.

BA (Audiology) 2  4 years

For admission to the second-choice programme, please consult the Programme Manager at +27 (0)12 420 6774.

Selection is based on academic achievement and only 50 students are admitted. To retain admission, you must obtain an APS of at least 26 in the NSC. The conditional selection process starts in July each year. For more information, please contact the Programme Coordinator at +27 (0)12 420 6774. For the Audiology and Speech-Language Pathology programme, the first study year is the same and the NBT is not required.

Note: We will consider both first- and second-choice applications for BA (Audiology).

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

BA (Fine-Arts) 3 4 years

For admission to the second-choice programme, please consult the Programme Manager at +27 (0)12 420 6781.

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 then use your APS, your portfolio, your academic merit score and a letter of recommendation 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 test. Detailed information about the selection steps, including the portfolio requirements and the questionnaire, can be obtained at www.up.ac.za/faculties/arts.

- You will be notified by email and/or SMS if you qualify for the final selection process.
- Approximately 100 applicants are invited to take part in the final selection process and the results are made available by mid-August. The UP online status of applicants will be updated accordingly in September.

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

BA (Information Design) 4 4 years

For admission to the second-choice programme, please consult the Programme Manager at +27 (0)12 420 3194/3688.

For the BA (Information Design) programme, the NBT is not required.

To retain admission, you must obtain an APS of at least 28 in the NSC. The selection process has two stages: Submission of a portfolio of at least 20 recent works, which must be sent to the Department of Visual Arts by 30 June. The Department will then use your APS, your portfolio, your academic merit score and a letter of recommendation 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.

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- You will be notified by email and/or SMS if you qualify for the final selection process.
- Approximately 100 applicants are invited to take part in the final selection process and the results are made available by mid-August. The UP online status of applicants will be updated accordingly in September.

Careers: Animators, graphic designers, illustrators, interaction designers, communication designers, artists, gallery managers, multimedia producers, editors, writers, graphic designers, design educators, media designers or freelance designers; typographers for advertising and branding agencies, publishers, media, 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.

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

Important information on undergraduate programmes for 2021

- The Faculty offers the following undergraduate programmes:
  - Bachelor of Veterinary Science (BVSc)
  - Bachelor of Veterinary Nursing (BVetNurs)
- Both undergraduate programmes in this Faculty include selection procedures, which are based on merit within different categories.
- The 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 in their final year and 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
Enquiries: vetug@up.ac.za

Closing dates: 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 candidates who obtained at least a 4 in the required subjects, will be considered for admission.

** 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>
</tr>
</thead>
<tbody>
<tr>
<td>BVSc</td>
<td>NSCE/IEB AS Level</td>
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<tr>
<td>BVetNurs</td>
<td>NSCE/IEB AS Level</td>
<td>NSCE/IEB AS Level</td>
<td>4 D</td>
<td>4 D</td>
</tr>
</tbody>
</table>

For advice on a second-choice programme, please consult a Student Advisor at +27 (0)12 420 3144.

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

** Enquiries**

University of Pretoria website: www.veterinary.up.ac.za
Enquiries: vetug@up.ac.za
University of Pretoria website: [www.up.ac.za/nas](http://www.up.ac.za/nas)
National Benchmark Test website: [www.nbt.ac.za](http://www.nbt.ac.za)

### 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 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 Bachelor of Science (BSc) programmes

#### BIOLOGICAL SCIENCES

**BSc (Biochemistry)** 3 (5 years)

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).

**CAREERS:** Biochemistry offers many opportunities for exciting and challenging careers in the life sciences. Opportunities exist in modern research, development and training. These range from full-time involvement in the field or laboratory to full-time involvement in the corporate sector. Graduates can look forward to a range of exciting career prospects. They could be employed at nature reserves, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, educational institutions and museums, pest management, quarantine and inspection services, in biotechnological and biochemical industries, in IT-related fields and in the corporate sector. Graduates with expertise in ecology are particularly highly sought after in the agricultural sector as insect management specialists or researchers.

**BSc (Biological Sciences)**

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).

**CAREERS:** This is a generic first-year programme in Biological Sciences. Students who are uncertain about which specialisation degree programme to choose may apply for this programme. Those who intend to apply for admission to MBChB or BChD in the second semester, when places become available in those programmes, may register for BSc (Biological Sciences) modules in the first semester, replacing Mathematics (WTW 134) with Science and World Views (FLS 155). People and their Environment (MGW 112) and Medical Terminology (MFL 185), with the proviso that they should not be selected and should wish to continue with one of the Biological Sciences programmes, they must complete Medical Terminology (MFL 185) in the second semester of their first year. **Note:** Mid-year consideration for Health Sciences. Students who wish to add these three modules (FLS 155, MGW 112 and MFL 185) are required to have an APS of at least 35 and a minimum of 70% for Mathematics in the final NSC or equivalent qualification.

**BSc (Biotechnology)** 3 (5 years)

The suggested second-choice programme for BSc (Biotechnology) is BSc (Biological Sciences).

**CAREERS:** Graduates mostly find work as laboratory-based researchers or bio-entrepreneurs using medical, animal, plant or microbe-based technology to develop products and services. If students combine a biotechnology with additional qualifications such as law, they will be equipped for success in careers such as patent lawyer, pharmaceutical sales and marketing, project management, computer programming (natural computation) and science journalism. Please note that the level of training and qualification plays an important role in determining the type of work a qualified biotechnologist can pursue.

**BSc (Ecology)** 3 (5 years)

The suggested second-choice programmes for BSc (Ecology) are any of the programmes listed in the biological or agricultural and food sciences programmes.

**CAREERS:** Graduates find work in environmentally-based statutory and private conservation organisations, organisations involved in the direct or indirect use of natural resources, environmental consultancies, environmental education initiatives and academic and training institutions.

**BSc (Genetics)** 3 (5 years)

The suggested second-choice programmes for BSc (Genetics) are any of the programmes listed in the biological or agricultural and food sciences programmes.

**CAREERS:** The suggested second-choice programme for BSc (Genetics) is BSc (Biotechnology). Graduates could be employed at nature reserves, environmental consultancies, conservation planning agencies, medical and veterinary research institutions, educational institutions and museums, pest management, quarantine and inspection services, in biotechnological and biochemical industries, in IT-related fields and in the corporate sector. Graduates with expertise in ecology are particularly highly sought after in the agricultural sector as insect management specialists or researchers.

**BSc (Human Physiology)** 3 (5 years)

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.

**CAREERS:****Graduates generally choose to work as research scientists, medical or clinical geneticists, cytogeneticists, biotechnologists, agricultural scientists, molecular ecologists, forensic scientists, genetic counsellors, bioinformatics 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 a qualified geneticist can become involved.

**BSc (Medical Sciences)** 3 (5 years)

The suggested second-choice programmes for BSc (Medical Sciences) are any of the programmes listed in the biological or agricultural and food sciences programmes.

**CAREERS:** Postgraduate studies are highly recommended. Honours, master’s and doctoral degrees can be obtained in any of the subdisciplines of anatomy (anatomy, clinical anatomy, cell biology, physical and forensic anthropology). Students who obtain this degree can also continue with their studies to obtain postgraduate degrees in physiology, genetics and pharmacology.

**CAREERS:** Career opportunities include research in any of the subdisciplines of anatomy, in academic, forensic science and health science industries. Other careers that can be considered are in the sports sciences, veterinary, chemical pathology, immunology, health administration or ergonomics. Technical careers are also possible, for example in the Anatomy or Pharamaceutical departments at universities.

Only 72 places are available in the first year of BSc (Medical Sciences). Students who apply for BSc (Medical Sciences) as their first choice before 30 September, and who meet the minimum admission requirements, will be admitted until the places have been filled. Other applicants will be considered for admission into any of the BSc – Extended programmes.

**BSc (Microbiology)** 3 (5 years)

The suggested second-choice programmes for BSc (Microbiology) are any of the programmes listed in the biological or agricultural and food sciences programmes.

**CAREERS:** Microbiologists can pursue a variety of careers involving activities ranging from practical application to basic research. Career opportunities are available in the food, dairy, beer, wine, baker’s yeast and fermentation industries, and at mines where they will be involved in corrosion control. Graduates can also follow careers as medical or veterinary microbiologists, researchers at organisations such as the CSIR, MRC or ARC, or lecturers and researchers at academic institutions.

**BSc (Plant Science)** 3 (5 years)

The suggested second-choice programmes for BSc (Plant Science) are any of the programmes listed in the biological or agricultural and food sciences programmes.

**CAREERS:** Graduates range from working in laboratories looking after plants in their natural environments. Graduates could be employed at biotechnology and pharmaceutical firms, South African National Parks, private ecological companies and research institutions such as the CSIR, ARC and the South African National Biodiversity Institute (SANBI).

Candidates who do not comply with the minimum admission requirements for the bovementioned Biological Sciences programmes may be considered for admission to the BSc – Extended programme – Biological and Agricultural Sciences, which requires an additional year of study.

### Undergraduate programme information 2021

<table>
<thead>
<tr>
<th>Programme</th>
<th>Minimum requirements for 2021*</th>
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<tbody>
<tr>
<td><strong>BSc (Entomology)</strong></td>
<td>3 (years)</td>
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<tr>
<td><strong>BSc (Human Genetics)</strong></td>
<td>3 (years)</td>
</tr>
<tr>
<td><strong>BSc (Medical Sciences)</strong></td>
<td>3 (years)</td>
</tr>
<tr>
<td><strong>BSc (Microbiology)</strong></td>
<td>3 (years)</td>
</tr>
<tr>
<td><strong>BSc (Plant Science)</strong></td>
<td>3 (years)</td>
</tr>
</tbody>
</table>

**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.

* Cambridge A level and International Baccalaureate (IB) candidates, please read the Note in the shaded block at the top of page 5.
Management) in 2017

The suggested second-choice programmes for BSc (Culinary Science) are BConSci (Hospitality Management), BSc (Food Science) and BSc (Nutrition).

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  

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 control specialists, food chemists, nutritionists, food microbiologists, 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 bakers or brewers) 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 organisation. 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  

The suggested second-choice programmes for BSc (Nutrition) are BSc (Food Science), BSc (Biochemistry), BSc (Microbiology) and BSc (Biological 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 or related industries (such as pharmaceutical companies), government departments, international organisations (such as the United Nations Food and Agricultural Organisation (FAO) and the World Health Organisation (WHO)) and research organisations, and as account managers and advisors in the food, health and consumer sectors.

BSc (Agricultural Economics and Agribusiness Management)  3  

The suggested second-choice programme for BScAgri (Agricultural Economics and Agribusiness Management) is BConSci (Agribusiness 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 finances and risks; advising 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 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.

BScAgri (Animal Science)  3  

The suggested second-choice programmes for BScAgri (Animal Science) are BSc (Biological Sciences) and BSc (Diving).
The task of the hydrogeologist is to look for groundwater and monitor the responsible human activities and the geological environment, such as the pollution of soil and groundwater. They include the geologists, geomorphologists, chemical pathologists, forensic chemists, diagnosticians, drug analyst, patent lawyer, environmental chemist, geochemist, food chemist, polymer chemist and others.

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 National Laser Centre (NLC), the South African Astronomical Observatory (SAAO) and the Laboratory for Accelerator-based Sciences (Laboratory for Accelerator-based Sciences), researchers in industry, for example as a CSR or Element Six, or as radiation scientists, medical scientists and biophysicists, atmospheric scientists and climatologists, developers of renewable energy sources, geophysicists, and other engineers, and computational scientists. International collaboration also takes place with experts from abroad.

BS (Geography and Environmental Sciences) 3

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

Careers: There are four 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 pollution and urban planning, resource management and tourism. Geographers are making an impact in the fields of ecosystems through activities such as mining, agriculture and tourism. Geographers in the private sector are generally employed by research institutions, universities and firms, banks, tourism organisations, environmental conservation bodies and government. Industries involved in forestry, water and land management, environmental education and interpretation, and tourism, for example, the SABS and the CSR offer career opportunities in the various specialised fields related to the earth and environmental sciences. Geographers are self-employed. They are mainly involved in areas such as health-related marketing, planning, development, tourism, cartography, geographic information systems (GIS), remote sensing, environmental management and conservation. Graduates pursuing academic careers could also be employed as environmental consultants, in air quality management, environmental impact assessments, environmental protection agencies, standards and specifications, public health, education, recreation, urban planners, quality specialists, natural-resource managers, risk managers, environmental educators, wetlands scientists, wildlife conservationists, environmental planners and analysts, waste-water to treat experts, programme and project managers, natural resources experts and researchers.

BS (Geoinformatics) 3

The suggested second-choice programme for BS (Geography) is BS (Geoinformatics).

Careers: Graduates are employed in areas such as agriculture, mineral exploration, geography, forestry, water resource management, weather forecasting, environmental impact assessment (EIA), land-use planning, urban development, market research, transportation, environmental impact assessment, vehicle tracking, cartography, GIS technology, environmental planning and analysis, and disaster and environmental management. Graduates may apply for professional registration as GIS technologists with the South African Geomatics Council (SAGC).

BS (Geology) 3

The suggested second-choice programme for BS (Geology) is BS (Engineering and Environmental Geology), BS (Physics) and BSAgri (Applied Plant and Soil Science).

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 geologists are interested in several areas, such as mining, to find in smaller, entrepreneurial firms (junior's). Interesting careers are also available in government departments and in national and international agencies, such as the South African National Space Agency (SANSA), the National Water Research Institute (NWRI), the Department of Water and Sanitation, and at museums, entrepreneurial firms (‘juniors’). Interesting careers are also offered by the Council for Geosciences, the CSIR, in research, exploration and mining projects. However, employment is increasingly to be found in smaller, entrepreneurial firms. 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 second-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 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, equities and derivatives) and management of other financial instruments (as options), designing new financial products and devising strategies to control credit risk.

BS (Actuarial and Financial Mathematics) 3

The suggested second-choice programme for BS (Actuarial and Financial Mathematics) is BS (Mathematics). 

Careers: Actuarial and Financial Mathematics is a popular field, with career opportunities in the business market and 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 second-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 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, equities and derivatives) and management of other financial instruments (as options), designing new financial products and devising strategies to control credit risk.

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BS (Engineering and Geology) 3

The suggested second-choice programme for BS (Engineering and Geology) is BS (Geology).

Careers: Graduates could be employed as geologists, mineralogists, extraction metallurgists, economic geologists, geochromists, and environmental and engineering geologists, geodentists, laboratory specialists and consultants.

Candidates, who do not comply with the minimum admission requirements for the abovementioned Physical Sciences programmes may be considered for admission to the BSc – Extended programme – Physical Sciences, which requires an additional year of study.

BS – Extended programme – Mathematical Sciences

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.

BS (Actuarial and Financial Mathematics) 3

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.
Faculty of Health Sciences

Important information on undergraduate programmes for 2021

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

- Admission to Health Sciences programmes is subject to a selection process.

- Grade 11 final examination results and the National Benchmark Test (NBT) results will be used for the conditional selection of prospective students.

- For selection purposes, the sum of the results in six subjects, including English, Mathematics and Physical Sciences, is calculated.

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

- The applications of international candidates who come from countries that have medical schools will not be considered for placement in the MBChB programme, except where intergovernmental agreements are in place.

- Candidates should note that their conditional admission will be revoked if their APS drops by more than two points in their final school examination results.

- Please note that compliance with the minimum admission requirements does not guarantee admission to any programme in this Faculty.

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

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

Note: The closing date for applications to all the programmes offered in the Faculty of Health Sciences has been extended to 31 July 2020. This applies to SA citizens and to citizens from countries other than South Africa.
Catch your dream boat to success with JuniorTukkie (JT)

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

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

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

Learners from Grade 9 to 12 are welcome to join JuniorTukkie
- Download the web-based JT App: juniortukkieapp.co.za
- On the JT App, go to: JuniorTukkie > Become a JuniorTukkie
- Complete the JT Membership Form

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

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

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