Published by the Wits Marketing Department in 2018.

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

It is my pleasure to welcome you to the University of the Witwatersrand.

As one of the world’s leading research institutions, Wits will equip you with a contextually-grounded, world-class education. Our graduates are innovators, job creators and thought leaders. We enable change in our society, contribute and collaborate across borders, and discover, create and debate.

Situated in the heart of South Africa’s economic hub and the gateway to Africa, Wits provides a cosmopolitan environment for our students. At Wits, you will find experts in fields as diverse as palaeontology, clinical medicine, nuclear sciences, engineering, inequality studies and the digital arts.

Your Wits experience will go beyond the lecture halls as we host a variety of events throughout the year. We also offer our students a wide range of cultural and sporting activities through our many student clubs and societies. So whether it is in the classroom, at the Wits Art Museum or on the sports field, you will find an opportunity to grow and learn at Wits.

Thank you for choosing Wits as the next step in your academic and professional development. I hope that you will enjoy being a part of our vibrant community and I wish you the best on your academic journey with us.

Vice-Chancellor and Principal, Professor Adam Habib
About Wits

Welcome .............................................1
Rankings .............................................4
Achievements .....................................4
Highlights ...........................................5
Resources ..........................................6
Facilities ..............................................7

Campus Life

Around Wits ........................................8
Student Support .................................10
- Counselling and Careers
  Development........................................12
- Clubs and Societies .........................13
- Citizenship and Community
  Outreach ..........................................13
- Development and Leadership ..........14
- First Year Experience .......................14
- Health and Wellness .........................14
Disability Rights Unit .........................15
Campus Housing and Residence Life ..........16
Wits Sport ...........................................18

Admissions, Applying to Wits, Fees and Choosing your Programme

Admissions..........................................22
National Certificate (Vocational) .............23
NBT and WAPT ......................................24
National Senior Certificate ....................25
Of those employed, 97% of our students get employment within six months of graduating.

Research

University output at Wits University has increased by 80% over the last five years, and over 85% of all publications are published in accredited international journals.

What we are known for

Intellectual excellence
International competitiveness
Local relevance

27
SARChI Research Chairs

28
NRF A-Rated Researchers

384
NRF-Rated Researchers

In 2017, Wits announced 16 ground-breaking new discoveries! And at the moment, Wits has a total of 50 active research projects on the African continent.

This is why we are seen as a leading research-intensive institution and a gateway to research engagement.

Did you know?

Wits co-founded the African Research Universities Alliance in 2015.
‘Witsies’ include some of South Africa’s great icons:

• George Bizos • Gwede Mantashe • Joe Slovo • Joel Joffe • Mbuyiseni Ndlozi • Musi Maimane • Nadine Gordimer • Oliver Tambo • Patrice Motsepe • Phillip Tobias • William Kentridge • Winnie Mandela

Honouring the past

Wits began as the South African School of Mines in 1896, receiving full university status and being incorporated as the University of the Witwatersrand on 1 March 1922.

We played a significant role during moments of historical significance, in South Africa and overseas, so our institution’s history is inextricably linked with mining, academic excellence, social justice, and political and civic activism.

Home to 4 Nobel Laureates

Wits Nobel Laureates

Medicine, Chemistry, Literature and Peace

top row (left to right):
Sydney Brenner (BSc, BSc Hons, Honorary DSc) 2002 Nobel Prize in Medicine; Nelson Mandela (Honorary LLD) 1993 Nobel Peace Prize

bottom row (left to right):
Nadine Gordimer (Honorary DLitt) 1991 Nobel Prize in Literature; Sir Aaron Klug (BSc, Honorary DSc) 1982 Nobel Prize in Chemistry

So far, Wits has produced:

• More than 160 000 alumni
• 2 Chief Justices of the Constitutional Court
• 15 Mandela Rhodes Scholars
• 91 Rhodes Scholars

Internationally recognised as a leader in palaeosciences

‘largest fossil collection in the southern hemisphere’
Resources

World-class education

We boast high academic standards through expert lecturers across five faculties, classrooms of the future, a blend of online and contact teaching, and ongoing investment in infrastructure, equipment and research.

Let’s allow the numbers to speak for themselves, shall we?

- **5 Faculties**
- **38 161 Students (2017)**
- **33 Schools**
- **65% PhDs amongst Academic Staff**
- **3416 Courses**

Wits programmes enjoy international accreditation:

- Actuarial Science
- Engineering
- Architecture
- BSc Honours in Quantity Surveying
- BSc Honours in Construction Management
- Wits MBA

More medical specialists and super-specialists are trained at Wits Medical School than any other university in SA!

Wits is globally represented through partnerships, collaborations, staff and student exchanges, and alumni across the world.
Facilities

Every single student’s everyday needs can be met, thanks to the Matrix, various eateries, access to tech services, and wifi.

Classrooms of the future
A blend of digital learning and traditional methods

The Planetarium

14 Museums

2 Art Galleries
including the Wits Art Museum

6 Theatres

Over 9 000 African artworks
the largest collection of African art
Our three campuses span buzzing Braamfontein and leafy Parktown.
Right at the epicentre of comedy, theatre, art, music, nightlife, food, sports, nature and hiking, and history heritage, Wits is an urban-based university, in the heart of Joburg’s commercial hub.

Food at WAM Cafe (Wits Art Museum), Maboneng Precinct and 44 Stanley

Shopping at 27 Boxes, The Neighbourgoods Market and the Rosebank Rooftop Market

Live music at The Orbit, Kitchener’s and The Bassline

Movies at The Bioscope, theatre at the Wits Theatre, Lyric Theatre, PopArt Theatre, Soweto Theatre, Jo’burg Theatre and the Market Theatre, art at the Wits Art Museum, the Jo’burg Art Gallery, Everard Read Gallery and the Stevenson Gallery

Nature, walking, hiking and cycling at the Melville Koppies and the Braamfontein Spruit

Picnicking at Zoo Lake, canoeing at Emmerentia Dam, visiting the Jo’burg Zoo and the Botanical Gardens

History, heritage and science at the Origins Centre at Wits, the Sci-Bono Discovery Centre, the Cradle of Humankind, the Adler Museum at Wits, the War Museum, the National Cultural History Museum, Constitution Hill, Sophiatown and the Apartheid Museum

Getting Around with the Rea Vaya, Metrobus, Gautrain, e Tuk-Tuk Melville and taxis
You may be stepping into your adult life, but why go it alone?

The Division of Student Affairs offers student support; student development and co-curricular opportunities as an integral part of your journey to academic success, leadership skills, engaged citizenship, and a rich Wits experience.

These services and opportunities are offered via:

- The Student Representative Council (SRC)
- The First Year Experience (FYE) Programme
- Counselling and Careers Development Unit (CCDU)
- Development and Leadership Unit (DLU)
- Campus Health and Wellness Centre (CHWC)
- Disability Rights Unit (DRU)
- Wits Citizenship and Community Outreach (WCCO)
- Residence Life and Campus Housing
- Wits Sport

Additionally, we offer a range of out-of-classroom experiences and activities, to develop our students into Witsies who will one day influence their world.
Counselling and Careers Development

You’re at Wits to get an education – no question about that. But which career path should you pursue? And how can you acquire a realistic appreciation of the world of work?

The Counselling and Careers Development Unit (CCDU) can help.

1. If you’re in Grade 11 or 12, make an appointment for a career counselling session with a Career Practitioner. This will help you to identify suitable career paths and make an informed decision. Contact the Unit for an appointment.

2. If you’re a Grade 11 or 12 learner, a current university student or an adult considering a mid-career change, you’re eligible for the Psychometric Career Assessment Programme (at a fee). Contact the Unit for more information.

We also want you to be the best possible version of yourself once you’re here, so our CCDU helps students to access professional supportive services.

Provided in a welcoming, empowering and safe space, these include:

- Individual and group counselling
- Career counselling and development
- Psycho-educative workshops and programmes
- HIV education, advocacy and support
- Volunteer peer advocacy on social justice, mental health, and HIV
- Peer mentorship training
- Graduate recruitment
- The ‘Journey to Employability’
- Life coaching
- Professional internships.

Visit us: CCDU Building, Wits Braamfontein Campus West. Closest entrance: Gate 9, Enoch Sontonga Ave, Braamfontein (Tel: 011 717 9140 /32 or email: info.ccdu@wits.ac.za)

www.wits.ac.za/ccdu/

Career Planner: www.gostudy.net/wits

“Do your little bit of good where you are; it’s those little bits of good put together that overwhelm the world.”
Archbishop Desmond Tutu
100+ clubs and societies

Clubs and Societies

Find your happy place. Sign up. Join in. Connect.

Whatever gets your pulse racing - sports, special interest clubs, or a full calendar of social events and gatherings – it’s bound to be part of the vibrant student social life available to all Witsies.

There are 100+ clubs and societies at Wits, enabling you to find your happy place whether your interests lie in academics, business, culture, politics, religion, society or social responsibility.

There’s an active Student Representative Council (SRC), which exists to voice your concerns, hear your suggestions and represent your interest (academic, financial, residential, sporting, etc.).

To find out more about registration for clubs and societies, or for information on how to register for various activities, visit us during Orientation Week.

Citizenship and Community Outreach

Witsies are good people. But, more than that, Witsies are engaged and conscious citizens who are connected to the needs of their communities - across campuses, the country, and the world.

Wits Citizenship and Community Outreach (WCCO) enables you to donate time, skills or talents as a volunteer, as part of a rich co-curricular experience.

The work of WCCO can shape how you:

- Learn to interact with your community
- Define public problems
- Develop your social skills and value systems
- Apply your knowledge
- Become a responsible citizen

There’s a wide range of community engagement projects, led by students.
Development and Leadership

The word university comes from the Latin for ‘seeking truth together’, and is a shorter version of universitas magistrorum et scholarium or a ‘community of masters and scholars’.

In this spirit, the Development and Leadership Unit (DLU) exists to develop high-impact world leaders for a better society.

The DLU believes that a vibrant student life experience requires an environment that allows the space for constructive debate, critical enquiry, civic engagement and challenging the status quo – for the benefit of students and society.

DLU learning platforms and co-curricular activities include:

- Student leadership camps, roundtables, training and development
- ‘Journeys of Discovery’
- Outdoor experiential learning

These help students to maximise their potential for personal growth and intense self-discovery.

The First Year Experience

A student-centred programme, designed to make the journey from high school to Wits a smooth and exciting one.

The First Year Experience (FYE) Programme is a student-centred programme aimed at helping first year students to transition from high school to university.

It aims to offer student support while providing programmes that contribute to the student experience, promote a sense of belonging, and unlock the potential for success and retention.

Health and Wellness

Without optimal health and wellbeing, it would be impossible for our students and staff members to be their best academic, co-curricular, extra-curricular, social and moral selves.

The Campus Health and Wellness Centre (CHWC) is the primary healthcare facility on campus, committed to promoting health, wellness and safety.

Services include:

- Medical consultation on minor ailments (a minimal fee is charged)
- Reproductive health services, including contraception
- Vaccination programmes; e.g. flu, Hep B, etc.
- HIV counselling and testing
- The management of sexually transmitted diseases
- Emergency medical care
- Wellness programmes and awareness campaigns
- Applications for deferments if you are ill during exams
- Assessments for extra time during examinations

The FYE Programme has six main focus areas:

1. Orientation
2. Information, Communication and Technology (ICT) skills
3. Student development (personal leadership and self-awareness)
4. ‘Learn for Life’ (time management, learning styles, goal setting, etc.)
5. Academic seminars (on plagiarism, critical thinking, etc.)
6. Civic engagement and advocacy (on outreach, gender equality, etc.)
At Wits, we want to offer a learning environment that is rewarding and enriching for students with disabilities, who receive the academic support and reasonable accommodations they need to participate fully in all aspects of university life.

The Disability Rights Unit (DRU) works to overcome the educational barriers and accessibility requirements facing students with visual, hearing, physical, learning and psychological disabilities, as well as chronic illnesses.

**Services include:**

- campus orientation
- IT and mobility training
- state-of-the-art assistive technology
- support for Deaf students through South African Sign Language interpreting or real-time captioning services
- assistance with extra-time applications for tests and exams, and
- academic materials in accessible formats (e.g. electronic, braille).

At the same time, the DRU focuses on the design of innovative learning and working environments, as well as the promotion of disability awareness and the abilities of people with disabilities.

**How to contact the DRU:**

1st Floor,
Solomon Mahlangu House, East Wing,
Braamfontein Campus East
1st Floor, Admin Block, Parktown
Education Campus
(Tel: 011 717 9152/51)
[www.wits.ac.za/disability-rights-unit](http://www.wits.ac.za/disability-rights-unit)
Campus Housing and Residence Life

Modern, secure, professionally managed, and well maintained

One in five Witsies live in one of our 17 residences!

Our residences – under the Division of Campus Housing and Residence Life (CHRL) – offer all the day-to-day services you need to feel at home while studying at Wits, including accommodation, housekeeping, meals, recreation, and access to support, development, and extra-curricular activities.

There are single-gender catered residences for junior undergraduates and mixed-gender catered and self-catered residences for seniors. There are six dining halls catering for res students and oppidani (day students) who can register for meals.

First year undergraduates are usually placed in shared rooms. A limited number of single rooms is available, and these are allocated to applicants who have paid the single room application fee, depending on availability.

Services on offer

• 24-hour security and access control
• Academic support for first year undergraduates
• Cultural activities
• DSTV rooms and indoor games
• Free laundry facilities
• Inter-res/inter-campus transport
• Live-in wardens
• Professional catering
• Regular cleaning services

• Sporting programmes
• Social events
• Residence computer centres and Wifi access

Some residences even have swimming pools, sports facilities, gyms, and more.

Res life is often one of the most rewarding experiences of a Wits student’s university journey.

New student?

Before applying for accommodation in a Wits residence, you must first submit your application for academic study.

Apply online via the student self-service portal: https://self-service.ac.za

The closing date for 2020 applications is 30 September 2019.
Important application information

Before applying for accommodation in a Wits residence, you must first submit your application for academic study.

• The closing date for all applications is 30 September 2019.

• Apply through the self-service portal, by clicking on the residence self-service tile: https://self-service.wits.ac.za

• An application fee of R125 (double room) or R625 (single room) is payable for new residence students, and payment of the application fee should be uploaded after clicking on the student-centre tile. Alternatively, email proof of payment to: accommodation@wits.ac.za

Note: The availability of single rooms cannot be guaranteed.

Payment Information:

Standard Bank,
Application Fees
Account Number: 200 346 385
Branch Code: 004805

Use your Person Number as the reference.

The residence application fee is non-refundable.

Pay via EFT, credit card or at the bank.

Some of our residences

Braamfontein Campus East
International House, Jubilee Hall*, Men’s Halls*, Sunnyside Hall*

Braamfontein Campus West
Barnato Hall, David Webster Hall, West Campus Village, Yale Village

Braamfontein
Braamfontein Centre, Noswal Hall, Rennie House

Parktown Education Campus
Girton Hall*, Medhurst Hall*, Reith Hall*

Parktown
Ernest Oppenheimer Hall*, Knockando Halls*, Wits Junction

*Junior catered residences

Safety and security

Your safety and security is our top priority. Our on-site Protection Service staff carry out 24-hour vehicle and foot patrols, and offer 24-hour on-campus escort service for all students and staff, especially those working late. There are emergency panic buttons throughout the campus, as well as an integrated surveillance system and an automated crime reporting system. There is an additional 24/7 security service that exists to respond to security incidents off campus in Braamfontein and Parktown, with the support of law enforcement bodies.
Wits Sport

A proud history of producing top-quality sportsmen and women

Wits is SA’s only official ‘Elite Athlete Friendly’ university, with 30+ sports codes.

At Wits, we see health, fitness and being physically active as a way of life. We’re known for the prowess and success of our sportsmen and women, as well as for our vibrant sports culture.

Wits Sport enables students, staff and alumni to participate in a range of sporting codes, whether high-performance, competitive or recreational. We also offer bursaries to top student athletes who meet the necessary academic and sporting requirements.

Closing date for sports bursaries: 31 August 2019

How does Wits compare in terms of elite training, sports testing and sports coaching? All our high-performance teams have specialised strength and conditioning coaches who are among the finest in the country, with National or Senior Provincial Level coaching and/or playing experience.

Wits Sport helps athletes to balance sports goals with academic obligations, thanks to a qualified counselling psychologist who manages our Academic Support Programme.
Wits Sport

Wits is home to the Bidvest Football Club, one of the largest football clubs in SA.

Wits Fitness and Wellness Centre
Our ultra-modern 2000m² gymnasium facility sits on West Campus and is the biggest of its kind in SA. Truly world-class, it offers state-of-the-art equipment, top trainers, and cutting-edge facilities.

30+ sports codes

Outdoor Sport
- Aquatics
- Cricket
- Football
- Futsal
- Hockey
- Mountaineering
- Netball
- Orienteering
- Rowing
- Rugby
- Rugby 7s
- Snow Skiing
- Tennis
- Ultimate Frisbee
- Underwater Sport
- Yachting

Indoor Sport
- Aerobics
- Basketball
- Boxing
- Chess
- Fencing
- Gymnastics
- Judo
- Karate (JKA)
- Kobujutsu/Tai Chi
- Squash
- Table Tennis
- Tang Soo Do
- Volleyball
- War Games

Expect world-class sports facilities including football, rugby and cricket fields; hard court areas for tennis, basketball and netball; two 50m swimming pools; an artificial hockey turf; extensive indoor sports facilities; Futsal courts; and the exceptional Wits Fitness and Wellness Centre.

www.wits.ac.za/sport/
Tanita Ramburuth-Hurt

High School: Jeppe Girls High

Degree: MSc Astrophysics

Sport: Tang Soo Do

Achievements:
- Tang Soo Do World Championship (2018) - three gold medals
- SA Champs (2018) - four gold medals
- Gauteng Sports Woman of the Year (2017)

Why did you choose Wits? Wits offers astrophysics, which has always been my passion. I also know a lot of people who have studied at Wits and it’s a fun place to study.

How do you balance studying at Wits and playing your sport? I find the easiest thing to do is to just commit to training times, once at the beginning. It’s almost never a thing of waking up and deciding whether to go to training that day. I had already committed to it, and everyone knows where I am on Tuesdays and Thursdays from 18:00-19:30. I have also found that training helps to relieve stress and it is something I love doing, so that helps to keep me happy and energised, especially during tough weeks.

What are your future goals? I want to complete my MSc in astrophysics. I also want to get my black belt in Tang Soo Do and create a space for women to train where they feel comfortable, capable and empowered.

Constant Beckerling

High School: Helpmekaar College

Degree: BSc in Engineering in the field of Chemical Engineering

Sport: Rugby

Achievements:
- Captained Wits Rugby to first ever Varsity Cup semi-final (2018)
- Qualified for the Varsity Cup Dream Team (2018)
- Played for the Golden Lions under 21 Currie Cup team (2017)

Constant’s passionate post match TV interviews earned him 107 000+ views on Facebook in 2018, making him a national phenomenon.

Why did you choose Wits? Wits was the best option for me to further my studies and rugby career. A lot of rugby players tend to go professional without having something to fall back on as sport is a very short lived career. I always wanted to study with the option to play rugby and Wits offered that.

How do you balance studying at Wits and playing your sport? Prioritising is very important. I am a student first and then an athlete.

What are your future goals? My immediate goal is to be a man I can be proud of, while my long term goal is to live life on my own terms.
Everisto Kundai Pasipamire

High School: Chipindura High School, Zimbabwe

Degree: BSc in Engineering in the field of Metallurgy and Materials

Sport: Basketball

Achievements:

• University Sports South Africa (USSA) champion (2017)
• Zimbabwe National Team (2015-2017)
• Youngest player to play for national colours at the Fiba Afro Basketball Championship in Tunisia (2015)

Why did you choose Wits? I grew up in a mining town of Bindura, so I always wanted to be an engineer in minerals and— (metals) specifically. I researched all the universities in South Africa offering a BSc in Metallurgy and Materials, and I chose Wits. It just so happened that Wits also has one of the best basketball programmes in the country. Altogether, Wits was the only choice for me.

How do you balance studying and playing your sport? Being a student as well as an athlete at Wits has taught me time management.

What are your future goals? Getting my degree is my priority. I would also like to play basketball professionally and at the same time inspire up and coming players to work towards achieving their dreams.
Admissions
National Certificate (Vocational)

Faculty of Commerce, Law and Management

BCom

BComSc

BAccSc

English

Mathematics

Four subjects from Business, Commerce and Management Studies

Faculty of Engineering and the Built Environment and the Faculty of Science

Besides meeting the University’s requirements an applicant who holds an NCV will be interviewed by the Dean, Assistant Dean and relevant Head of School.

Faculty of Health Sciences

MBBCh, BPharm

BSc(Physio),

BHSc(Biomedical and Biokinetics)

BDS

BNurs

BSc (OT)

Bachelor of Oral Health Sciences

English HL/First Additional Language

Mathematics

Life Sciences AND/OR Physical Sciences

English HL/First Additional Language

Mathematics

Life Sciences and Physical Sciences

English HL/First Additional Language

Mathematics

Life Sciences and Physical Sciences

English HL/First Additional Language

Mathematics

Life Sciences and Physical Sciences

Admission Point Scores

<table>
<thead>
<tr>
<th>Admission Point Scores</th>
<th>%</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding</td>
<td>80-100</td>
<td>5</td>
</tr>
<tr>
<td>Highly competent</td>
<td>70-79</td>
<td>4</td>
</tr>
<tr>
<td>Competent</td>
<td>50-69</td>
<td>3</td>
</tr>
<tr>
<td>Not yet competent</td>
<td>40-49</td>
<td>2</td>
</tr>
<tr>
<td>Not achieved</td>
<td>0-39</td>
<td>1</td>
</tr>
</tbody>
</table>
The following applicants are required to write the National Benchmark Tests (NBT) before being considered for admission:

**Faculty of Health Sciences**

All applicants (except those who are applying for admission into the Graduate Entry Medical Programme – GEMP - ONLY).

**Please note:**

- Applicants who achieve in the ‘basic’ range (refer to table below), are unlikely to be considered for a place in the Health Sciences degrees.
- These are standard tests for all medical schools in South Africa, and you are only required to write the tests once, irrespective of the number of medical schools you have applied to.

**Faculty of Humanities**

Applicants to the Bachelor of Speech-Language Pathology, Bachelor of Audiology, and Bachelor of Social Work.

Mature age applicants who wrote matric pre-2008, with no degree exemption, may qualify for exemption, and will be required to write the NBT test for all Arts Degrees (excluding BA Law, Bachelor of Speech-Language Pathology and Bachelor of Audiology).

**Two Tests**

1) Academic and Quantitative Literacy Test
2) Mathematics Test

The test results will be used in addition to the Grade 11 results (for early decision making purposes) and the Grade 12 results (for final decision-making purposes).

- Both tests (1 and 2) must be written at one session.
- ONLY the first attempt results will be taken into account for selection purposes and thus it is not advisable to write the tests more than once in any year.

**NBT results are valid for three years.**

**Rules**

- Applicants to register on www.nbt.ac.za/ to write the tests.
- Registration closes approximately three weeks prior to each of the test dates.

You can register for the NBT even before you submit your application to the University.

DO NOT wait for an official notification from the University in order to register and write the tests. You may miss the NBT deadline.

- A fee is charged for the tests. The fee can only be paid once you have registered to write the test.
- Results received for tests written after this date WILL NOT be taken into consideration. Applicants are encouraged to write the tests as early as possible.

**Wits Additional Placement Test (WAPT)**

Graduate Entry Medical Programme (GEMP) applicants only

To be able to calculate a composite index, all components that contribute to this must be finalised (i.e.Tertiary Aggregate). Applicants will be notified of their eligibility to write the WAPT, scheduled for September 2019, as and when documentation for applications is complete. This means that the Faculty has received an academic transcript and all other pertinent documents.

If documents are not submitted by 15 July 2019, no further consideration will be given to your application. Applicants will need to start preparing well in advance of notification. All information about the content and nature of each of the components of the test is given on the GEMP website:

www.wits.ac.za/health/gemp

For a comprehensive list of test dates, registration dates and available venues, please refer to the NBT website, www.nbt.ac.za

---

**Admissions (National Benchmark Tests and Wits Additional Placement Test)**
National Senior Certificate

Minimum Admission Requirements (Bachelor’s Degree Pass)

NB: Compliance with the minimum requirements does not guarantee a place at the University. The University has a specific number of places for first year undergraduates, approved by the Department of Higher Education and Training. Final selection is made by subject to the availability of places, academic results and other entry requirements where applicable. Applicants require the following to gain entry into any of the five faculties:

- National Senior Certificate (NSC), or Independent Examinations Board (IEB), or South African Comprehensive Assessment Institute (SACAI) subjects, and
- Certain levels of achievement as set out in this Guide, as well as a Bachelor’s Degree pass.

Points

Wits tabulates the points score for all subjects on the following basis:

- English must be taken either as Home Language or First Additional Language
- Mathematics is a core and compulsory subject for all numerate programmes in Commerce, Law and Management, Engineering and the Built Environment, Science and most of the programmes in the Health Sciences Faculty.
- Maths Literacy will be accepted by Law, Education and Humanities (except for Speech-Language Pathology and Audiology)
- Wits does not distinguish between designated vs. non-designated subjects when calculating the admission point score (APS)
- The APS calculation is based on the best seven subjects including Life Orientation.
- AP subjects are also included in the APS calculation. Applicants completing Technical Maths AND/OR Technical Science may contact the Student Enrolment Centre for further advice.

Calculate your points

Note: Seven subjects are used in the calculation of APS

<table>
<thead>
<tr>
<th>Subject</th>
<th>%</th>
<th>Wits APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. English Home Language OR LOLT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. 1st Additional Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Mathematics/Maths Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Life Orientation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL APS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Faculty of Commerce, Law and Management

### Minimum Admission Requirements

**National Senior Certificate (NSC) Bachelor’s degree pass**

**Closing Date: 30 September 2019**

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Duration (years)</th>
<th>APS</th>
<th>English Home Language OR First Additional Language</th>
<th>Actuarial Science, Mathematics</th>
<th>Maths Literacy</th>
<th>Wait-listing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Accountancy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Commerce</td>
<td>3</td>
<td>39 +</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Applicants with an APS of 35-38, as well as English Level 6 AND Mathematics Level 6, will be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Accounting Science (BAccSc)</td>
<td>3</td>
<td>42 +</td>
<td>5</td>
<td>6</td>
<td></td>
<td>Applicants with an APS of 39-41, as well as English Level 6 AND Mathematics Level 6, will be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td><strong>School of Economic and Business Sciences</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Economic Science (B EconSc)</td>
<td>3</td>
<td>42 +</td>
<td>5</td>
<td>6</td>
<td></td>
<td>Applicants with an APS of 39-41, as well as English Level 5 AND Mathematics Level 7, will be wait-listed, subject to place availability. Applicants interested in Actuarial Science require Mathematics Level 7 and English Level 6.</td>
</tr>
<tr>
<td><strong>School of Law</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Commerce with Law - BCom(Law)</td>
<td>3</td>
<td>43 +</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Applicants with an APS of 35-42, as well as English Level 6 AND Mathematics Level 6, will be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Two-year LLB (for graduates only)</td>
<td>2</td>
<td>No matric APS calculation</td>
<td>Subject to assessment criteria as determined by the School of Law, and place availability. Wits applicants who have completed a BA Law or BCom Law are eligible to apply for the two-year LLB.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-year LLB (for graduates only)</td>
<td>3</td>
<td>No matric APS calculation</td>
<td>Subject to assessment criteria as determined by the School of Law, and place availability. Applicants who have completed an undergraduate degree at an institution other than Wits are required to apply for the three-year LLB programme. Wits applicants who have completed an undergraduate degree without Law modules are also required to apply for the 3-year LLB. Applicants must have obtained an average of at least 60% in an undergraduate degree.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Four-year LLB</td>
<td>4</td>
<td>46+</td>
<td>6</td>
<td>5</td>
<td>6</td>
<td>Applicants with an APS of 40-45, as well as English Level 6 AND Mathematics Level 5 OR Maths Literacy Level 6, will be wait-listed, subject to place availability.</td>
</tr>
</tbody>
</table>

**NB:** Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.
Minimum Admission Requirements (Commerce, Law and Management)

### International Qualifications (Relevant exemption from South African Matriculation Board)

<table>
<thead>
<tr>
<th>International Qualifications</th>
<th>School of Accountancy</th>
<th>School of Economic and Business Sciences</th>
<th>School of Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Level (A Level) / Advanced Subsidiary (AS Level)</td>
<td>HL,SL 4-7</td>
<td>HL,SL 4-7</td>
<td>HL,SL 5-7</td>
</tr>
<tr>
<td>International Baccalaureate (IB Diploma)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language</td>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.
### Faculty of Engineering and the Built Environment

#### Minimum Admission Requirements

**National Senior Certificate (NSC) Bachelor's degree pass**

Closing Dates: 30 June 2019 (Bachelor of Architecture) | 30 September 2019 (all other programmes)

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.

<table>
<thead>
<tr>
<th>Programmes</th>
<th>APS</th>
<th>English Home Language OR First Additional Language</th>
<th>Mathematics</th>
<th>Physical Science</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Chemical and Metallurgical Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Chemical Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Metallurgy and Materials Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td><strong>School of Civil and Environmental Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Civil Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td><strong>School of Electrical and Information Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Electrical Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Biomedical Engineering (BEngScBiME) (3 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Digital Arts (BEngScDA) (3 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Applicants will be required to complete additional selection criteria, e.g. workshop, interview.</td>
</tr>
<tr>
<td><strong>School of Mechanical, Industrial and Aeronautical Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Aeronautical Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Industrial Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Mechanical Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td><strong>School of Mining Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Engineering in Mining Engineering (BSc(Eng)) (4 years)</td>
<td>42+</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>Generally, applicants who achieve Level 6 in English, Mathematics, and Physical Science stand a greater chance of being accepted.</td>
</tr>
<tr>
<td><strong>School of Architecture and Planning</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Architectural Studies (BAS) (3 years)</td>
<td>34+</td>
<td>4</td>
<td>4</td>
<td></td>
<td>Acceptance depends on departmental selection. Applicants must complete a written and graphic exercise, and may be required to attend an interview. Applicants with a Wits APS of 29-33 may be accepted on the basis of exceptional scores, following an interview. The BAS selection process is conducted by a panel of senior academics from the School of Architecture and Planning, which is monitored by the Assistant Dean. Selection is based predominantly on performance in the selection exercise, interview, and academics. Demographic balance is taken into consideration where a choice needs to be made between applicants scoring within the same range.</td>
</tr>
<tr>
<td>Bachelor of Science in Urban and Regional Planning (BScURP) (3 years)</td>
<td>36+</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Preference is given to Mathematics and English pass at NSC scale of achievement Level 6 and above.</td>
</tr>
<tr>
<td><strong>School of Construction Economics and Management</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Construction Studies (BScCS) (3 years)</td>
<td>36+</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Preference is given to Mathematics and English pass at NSC scale of achievement Level 6 and above.</td>
</tr>
<tr>
<td>Bachelor of Science in Property Studies (BSc(Property Studies)) (4 years)</td>
<td>36+</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Preference is given to Mathematics and English pass at NSC scale of achievement Level 6 and above.</td>
</tr>
</tbody>
</table>

Minimum Admission Requirements (Engineering and the Built Environment)
### International Qualifications (Relevant exemption from South African Matriculation Board)

<table>
<thead>
<tr>
<th>Ordinay Level (O Level)/International General Certificate of Secondary Education (IGCSE)</th>
<th>Advanced Level (A Level)</th>
<th>Advanced Subsidiary (AS level)</th>
<th>International Baccalaureate (IB Diploma)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher Int. Certificate of Secondary Education (HIGCSE)</td>
<td>Advanced Level (A Level)</td>
<td>Advanced Subsidiary (AS level)</td>
<td>International Baccalaureate (IB Diploma)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Chemical and Metallurgical Engineering</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Civil and Environmental Engineering</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Electrical and Information Engineering</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Mechanical, Industrial and Aeronautical Engineering</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Mining Engineering</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Architecture and Planning</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Construction Economics and Management</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-C</td>
<td>A-C</td>
<td>HL 4-7, SL 5-7</td>
</tr>
</tbody>
</table>

Minimum Admission Requirements (Engineering and the Built Environment)
Faculty of Health Sciences

Minimum Admission Requirements

**National Senior Certificate (NSC) Bachelor’s degree pass**  
Closing Date: 30 June 2019

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Selection Procedures</th>
<th>English Home Language OR First Additional Language</th>
<th>Mathematics</th>
<th>Life Sciences</th>
<th>Physical Sciences</th>
<th>Life Sciences AND/OR Physical Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Health Sciences: (BHSc)</td>
<td>All applicants to the Faculty of Health Sciences, excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only, must write the NBT by 10 August 2019. Refer to Page 102 for more information on the NBT or refer to: <a href="http://www.nbt.ac.za">www.nbt.ac.za</a></td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Clinical Medical Practice (BCMP)</td>
<td>There are two entry points into the MBBCh:</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Medicine and Bachelor of Surgery</td>
<td>All applicants to Bachelor of Dental Science and Bachelor of Oral Health Sciences must spend time observing specific procedures as performed by a Dentist/Dental Therapist/Oral Hygienist to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: <a href="http://www.wits.ac.za/undergraduate/apply-to-wits/under">www.wits.ac.za/undergraduate/apply-to-wits/under</a> Additional Forms. Applicants who fail to submit a certificate will not be considered for admission.</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Oral Health Sciences (BOHS)</td>
<td>All applicants to BSoc Occupational Therapy must spend time observing an Occupational Therapist, and all applicants to BSoc Physiotherapy must spend time observing a Physiotherapist, to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: <a href="http://www.wits.ac.za/undergraduate/apply-to-wits/under">www.wits.ac.za/undergraduate/apply-to-wits/under</a> Additional Forms. Applicants who fail to submit a certificate will not be considered for admission.</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Nursing (BNurs)</td>
<td></td>
<td>4</td>
<td>4</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Pharmacy (BPharm)</td>
<td></td>
<td>5</td>
<td>5</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Occupational Therapy (BSc OT)</td>
<td>All applicants to BSoc Occupational Therapy must spend time observing an Occupational Therapist, and all applicants to BSoc Physiotherapy must spend time observing a Physiotherapist, to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: <a href="http://www.wits.ac.za/undergraduate/apply-to-wits/under">www.wits.ac.za/undergraduate/apply-to-wits/under</a> Additional Forms. Applicants who fail to submit a certificate will not be considered for admission.</td>
<td>4</td>
<td>4</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Physiotherapy (BSc Physiotherapy)</td>
<td>All applicants to BSoc Occupational Therapy must spend time observing an Occupational Therapist, and all applicants to BSoc Physiotherapy must spend time observing a Physiotherapist, to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: <a href="http://www.wits.ac.za/undergraduate/apply-to-wits/under">www.wits.ac.za/undergraduate/apply-to-wits/under</a> Additional Forms. Applicants who fail to submit a certificate will not be considered for admission.</td>
<td>5</td>
<td>5</td>
<td></td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.

Minimum Admission Requirements (Health Sciences)
International Qualifications (Relevant exemption from South African Matriculation Board)

<table>
<thead>
<tr>
<th>Ordinary Level (O Level)</th>
<th>Advanced Subsidiary (AS Level)</th>
<th>International Baccalaureate (IB Diploma)</th>
<th>Higher Int. Certificate of Secondary Education (HIGCSE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>International General Certificate of Secondary Education (IGCSE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language</td>
<td>Mathematics</td>
<td>Biology/Physics/Chemistry</td>
<td></td>
</tr>
<tr>
<td>ALL Applicants must have done English Language, Mathematics, Biology, Physics or Chemistry.</td>
<td>Bachelor of Denistry applicants must have done English Language, Mathematics, Biology, Physics and Chemistry.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AC</th>
<th>AC</th>
<th>HL 4-7, SL 5-7</th>
<th>1-2</th>
<th>AC</th>
<th>AC</th>
<th>HL 4-7, SL 5-7</th>
<th>1-2</th>
<th>AC</th>
<th>A choice of TWO from Biology, Physics OR Chemistry</th>
<th>AC</th>
<th>A choice of TWO from Biology, Physics OR Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
<tr>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>AC</td>
<td>HL 4-7, SL 5-7</td>
<td>1-2</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
<td>AC</td>
<td>A choice of TWO from Biology, Physics OR Chemistry</td>
</tr>
</tbody>
</table>

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.
Faculty of Humanities

Minimum Admission Requirements

National Senior Certificate (NSC) Bachelor's degree pass

Closing Dates: 30 June 2019 (B Speech Language Pathology and B Audiology and BA Film and Television | 30 September 2019 (all other programmes)

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.

### ProgrammesAPS English Home Language OR First Additional Language Mathematics Maths Literacy Wait-listing

<table>
<thead>
<tr>
<th>Bachelor of Arts (BA) (3 years)</th>
<th>34 +</th>
<th>5</th>
<th></th>
<th>30-33 points. Preference is given to higher English results.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts (Law) (3 years)</td>
<td>43 +</td>
<td>5</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

### Professional and Specialist Degrees:

#### Wits School of Arts (WSoA)

<table>
<thead>
<tr>
<th>Programme</th>
<th>Additional Selection Criteria</th>
<th>APS English Home Language OR First Additional Language</th>
<th>Wait-listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts in Digital Arts (4 years)</td>
<td>Consideration for any degree in the Wits School of Arts requires applicants to fulfil the academic entrance criteria set out by the University. In addition it is required that the applicant successfully complete an interview/audition/portfolio/written assignment at the Wits School of Arts that will take place from April 2019. Consideration into the degree is dependent on you successfully fulfilling both these criteria.</td>
<td>34 +</td>
<td>5</td>
</tr>
<tr>
<td>Bachelor of Arts in Dramatic Art (4 years)</td>
<td></td>
<td>34 +</td>
<td>5</td>
</tr>
<tr>
<td>Bachelor of Arts in Film and Television (4 years)</td>
<td></td>
<td>34 +</td>
<td>5</td>
</tr>
<tr>
<td>Bachelor of Arts in Fine Arts (4 years)</td>
<td></td>
<td>34 +</td>
<td>5</td>
</tr>
<tr>
<td>Bachelor of Music (4 years)</td>
<td></td>
<td>34 +</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Wits School of Education (WSoE)

<table>
<thead>
<tr>
<th>Bachelor of Education (BEd) (4 years)</th>
<th>APS English Home Language OR First Additional Language</th>
<th>Wait-listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Foundation Phase Teaching</td>
<td>36 +</td>
<td>5</td>
</tr>
<tr>
<td>- Intermediate Phase Teaching</td>
<td>36 +</td>
<td>5</td>
</tr>
<tr>
<td>- Senior Phase &amp; Further Education &amp; Training Teaching</td>
<td>36 +</td>
<td>5</td>
</tr>
</tbody>
</table>

#### School of Human and Community Development (SHCD)

| Bachelor of Speech-Language Pathology (4 years) | 34 + | 5 | 4 | An APS of 30-33 points may be wait-listed, subject to place availability. Preference is given to higher English results. |
| Bachelor of Audiology (4 years) | 34 + | 5 | 4 | An APS of 30-33 points may be wait-listed, subject to place availability. Preference is given to higher English results. |
| Bachelor of Social Work (4 years) | Please refer to page 24 for more information on the NBT. | 34 + | 5 | An APS of 30-33 points may be wait-listed, subject to place availability. Preference is given to higher English results. |
### International Qualifications (Relevant exemption from South African Matriculation Board)

<table>
<thead>
<tr>
<th>O Level/IGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Professional and Specialist Programmes:**

**Wits School of Education (WSoE)**

**Bachelor of Education (BEd)**

<table>
<thead>
<tr>
<th>O Level/IGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**School of Human and Community Development (SHCD)**

<table>
<thead>
<tr>
<th>O Level/IGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
<th>A Level</th>
<th>AS Level</th>
<th>IB Diploma</th>
<th>HIGCSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7</td>
<td>1-3</td>
<td>A-C</td>
<td>A-E</td>
<td>A-D</td>
<td>HL/SL 4-7 1-3</td>
</tr>
</tbody>
</table>
Faculty of Science

Minimum Admission Requirements

National Senior Certificate (NSC) Bachelor's degree pass

Closing Date: 30 September 2019

NB: Due to the limited number of places available, meeting the minimum requirements does not guarantee a place. Final selection is made subject to the availability of places, academic results and other entry requirements where applicable.

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Duration (years)</th>
<th>APS</th>
<th>English Home Language or First Additional Language</th>
<th>Mathematics</th>
<th>Physical Science</th>
<th>Wait-listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science (BSc) General</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in the field of Biological Sciences</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Earth Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in the fields of Archaeology and Geography</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>5</td>
<td></td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Geological Sciences</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in the field of Actuarial Science</td>
<td>3</td>
<td>40 +</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Computer Science</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>6</td>
<td></td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Mathematics of Finance</td>
<td>3</td>
<td>42 +</td>
<td>5</td>
<td>6</td>
<td></td>
<td>Applicants with 40-41 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in field of Mathematical Sciences</td>
<td>3</td>
<td>40 +</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in the field of Astronomy and Astrophysics</td>
<td>3</td>
<td>43 +</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>Applicants with 40-42 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Chemistry with Chemical Engineering</td>
<td>3</td>
<td>43 +</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>Applicants with 40-42 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Nuclear Sciences and Engineering</td>
<td>3</td>
<td>43 +</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>Applicants with 40-42 points may be wait-listed, subject to place availability.</td>
</tr>
<tr>
<td>Bachelor of Science in the field of Physical Sciences</td>
<td>3</td>
<td>40 +</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>Applicants with 38-39 points may be wait-listed, subject to place availability.</td>
</tr>
</tbody>
</table>
### International Qualifications (Relevant exemption from South African Matriculation Board)

<table>
<thead>
<tr>
<th>Qualification</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary Level (O Level)</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IGCSE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Level (A Level)</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>Advanced Subsidiary (AS Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGCSE</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IB Diploma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Int. Certificate</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>of Secondary Education</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biological Sciences**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Level (A Level)</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>Advanced Subsidiary (AS Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGCSE</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IB Diploma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Int. Certificate</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>of Secondary Education</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Earth Sciences**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Level (A Level)</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>Advanced Subsidiary (AS Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGCSE</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IB Diploma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Int. Certificate</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>of Secondary Education</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mathematical Sciences**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Level (A Level)</td>
<td>A-B</td>
<td>A-B</td>
<td>HL 6-7, SL 7 1-2 A A HL 6-7 1 A-B A-B HL 6-7 1</td>
</tr>
<tr>
<td>Advanced Subsidiary (AS Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGCSE</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IB Diploma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Int. Certificate</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>of Secondary Education</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Physical Sciences**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>English Language</th>
<th>Mathematics</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Level (A Level)</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>Advanced Subsidiary (AS Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGCSE</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>IB Diploma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Int. Certificate</td>
<td>A-C</td>
<td>A-C</td>
<td>HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3 A-C HL/SL 4-7 1-3</td>
</tr>
<tr>
<td>of Secondary Education</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Higher Education Act (101 of 1997) gives the University the autonomy to determine its admissions policy and the entry requirements for admission into all programmes.

Not all curricula are suitable for consideration into degree studies at Wits University. Whilst Universities South Africa (USAf) may issue a Certificate of Exemption, it is made clear that meeting the exemption requirement does not guarantee meeting the minimum faculty entry requirements of a Higher Education Institution.

Additionally, the University does not consider the outcome of assessments (e.g. SATs, NBTs, etc.) on their own to decide on admission to the University. The admission criteria take into consideration the combination of curriculum, pedagogy, and assessment standards.

As with all foreign qualifications, any curriculum developments (brought to the University’s attention) are scrutinised by the academics in the faculties – and admissions criteria adjusted on the basis of this.

Any advice provided to applicants at a given point in time is subject to change, and admission to the University is not guaranteed for any applicant.

Applicants completing international qualifications are required to submit copies of all secondary school leaving results, as well as academic transcripts of all tertiary studies, whether these have been completed or not.

Additionally, the syllabus for certain subjects, e.g. Mathematics and Physics, may be necessary for consideration into a programme.

Applicants who have completed qualifications in a language other than English are required to submit copies of both original language documents as well as a sworn English translation thereof.

These applicants are also required to write the International English Language Testing System (IELTS) test.
Applying to Wits

Closing Dates

30 June 2019

• All Health Sciences Programmes
  • Bachelor of Architecture
  • Bachelor of Audiology
  • Bachelor of Speech-Language Pathology
  • Bachelor of Arts in Film and Television

30 September 2019

All other Programmes
Residence Applications
Apply for a maximum of three programmes (Refer to the minimum admission requirements)

- Order of choice does not matter.
- Each choice of degree is considered individually and the outcome of one does not affect the outcome of another.
- If you apply for two programmes within one Faculty, you are advised to apply for one programme in a less restricted faculty (e.g. Humanities, Commerce or Science).
- Try to keep your options open, especially when applying for programmes in faculties such as Health Sciences or Engineering.

Closing dates

**30 June 2019**
- Faculty of Health Sciences (all programmes)
- Bachelor of Architecture
- Bachelor of Audiology
- Bachelor of Speech-Language Pathology
- Bachelor of Arts in Film and Television

**30 September 2019**
- All other programmes
- Residence applications

Additional selection requirements

Some degrees have additional selection requirements such as portfolio and essay submissions, auditions or the National Benchmark Test (NBT).

www.wits.ac.za/undergraduate/apply-to-wits/ (Additional Forms)

Apply online

Supporting documents required at the time of application

**Current Matric Applicants**
Applicants currently in Grade 12 must upload their final Grade 11 results at the point of application. **Hard copies of final Grade 11 results are not required.**

**Past Matric Applicants**
Applicants who have completed Grade 12 or are currently upgrading must upload their final Grade 12 results, and submit a certified hard copy of these to the Student Enrolment Centre (SEnC).

**Applicants with Tertiary Experience**
Applicants with tertiary experience must upload, as well as submit an official academic transcript of all tertiary studies, whether these have been completed or not. Academic transcripts are required to include a statement of good conduct. A duly certified copy of your matric certificate is also required.

Please deliver required documentation to:
SEnC, Braamfontein Campus East, Ground Floor, Solomon Mahlangu House, Jorissen Street, Braamfontein, Johannesburg

**Additional selection requirements**

Some degrees have additional selection requirements such as portfolio and essay submissions, auditions or the National Benchmark Test (NBT).

www.wits.ac.za/undergraduate/apply-to-wits/ (Additional Forms)

Pay your application fee

- Application fee of R100 for South African citizens (non-refundable)
- Application fee of R700 for foreign citizens (non-refundable)

Payments to be made before closing dates
30 June 2019 or 30 September 2019 (refer to point 1).

**How to pay**
Please deposit the exact amount into the University’s Application Fee account:
- **Account name:** Wits University - Application Fees
- **Bank:** Standard Bank
- **Account type:** Current Account
- **Account number:** 200 346 385
- **Branch code:** 004805 (Braamfontein)
- **CI number:** 074A
- **SWIFT code** (for international payments): SBZAZAJJ

**Use your Temporary ID or Person Number as a reference.**

You can pay via EFT, credit card or through a direct deposit at the bank. You can also pay in cash or using a credit card at:
- **Fees Office, Braamfontein Campus East, Ground Floor, Solomon Mahlangu House, Braamfontein, Johannesburg**
You will receive an email from the University acknowledging receipt of your application. The acknowledgment email will contain a person number (which will become your student number). You will also be assigned an Admissions Consultant whom you may contact for any application related queries or any programme amendments you wish to make. Further communication will include various instructions (e.g. write the NBT, attend an interview, or submit outstanding documents).

NOTE:

- Certain programmes have additional selection criteria, e.g. NBT, audition, portfolio.
- Applicants currently writing matric may be made a provisional offer depending on self-reported Grade 11 results.
- Firm offers can only be confirmed after the release of the final matric results.
- Successful applicants will receive communication offering a firm place and information about registration and orientation programme.
- You are required to respond to the offer within a few days to secure your place.
- Places are limited, therefore you may only accept one offer.
- Meeting the minimum admission requirements does not guarantee a place for any applicant.
Changed your mind about your choice of study?

1) Do not submit a new application
2) Check with the Student Enrolment Centre (SEnC), if applications are still open for your new selection
3) Contact your admissions consultant

Should your contact details change (e.g. email, residential or postal address or contact numbers) update your new details on the student self-service portal:

https://self-service.wits.ac.za/
Average Tuition Fees

**Programme** | **Fees** |
---|---|
**Commerce, Law and Management** | |
Bachelor of Commerce (Accounting) (BComAcc) | R51 180 |
Bachelor of Commerce (BCom) | R47 750- R51 180 |
Bachelor of Economic Science (BEcon) | R45 610 |
Bachelor of Laws (LLB) | R39 960 |
**Engineering and the Built Environment** | |
Bachelor of Architectural Studies (BAS) | R56 450 |
Bachelor of Engineering Science (Biomedical Engineering) (BEngSc(BME)) | R55 190 |
Bachelor of Engineering Science (Digital Arts) (BEngSc(DAI)) | R49 390 |
Bachelor of Science (Engineering) (BSc(Eng)) depending on branch | R51 830 |
Bachelor of Science (Construction Studies) (BSc(CS)) | R71 360 |
Bachelor of Science (Property Studies) (BSc(PS)) | R57 260 |
Bachelor of Science (Urban and Regional Planning) (BSc(URP)) | R58 000 |
**Health Sciences** | |
Bachelor of Clinical Medical Practice (BCMP) | R53 400 |
Bachelor of Dental Science (BDS) | R70 440 |
Bachelor of Health Sciences (BHSc) | R59 670 |
Bachelor of Nursing (BNurs) | R47 900 |
Bachelor of Pharmacy (BPharm) | R44 490 |
Bachelor of Oral Health Sciences (BOHS) | R45 340 |
Bachelor of Science (Occupational Therapy) (BSc(OT)) | R53 400 |
Bachelor of Science (Physiotherapy) | R52 490 |
Bachelor of Medicine and Surgery (MBChB) | R61 220 |

**Humansities**

<table>
<thead>
<tr>
<th>Programme</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts (BA)</td>
<td>R41 000 - R54 000</td>
</tr>
<tr>
<td>Bachelor of Arts (Digital Arts)</td>
<td>R44 960</td>
</tr>
<tr>
<td>Bachelor of Arts (Dramatic Art) (Theatre and Performance)</td>
<td>R44 360</td>
</tr>
<tr>
<td>Bachelor of Film and TV (BAFT)</td>
<td>R45 120</td>
</tr>
<tr>
<td>Bachelor of Arts (Fine Arts)</td>
<td>R51 840 - R52 300</td>
</tr>
<tr>
<td>Bachelor of Music (BMus)</td>
<td>R45 280</td>
</tr>
<tr>
<td>Bachelor of Education (BEd)</td>
<td>R37 080</td>
</tr>
<tr>
<td>Bachelor of Speech-Language Pathology</td>
<td>R50 710</td>
</tr>
<tr>
<td>Bachelor of Audiology</td>
<td>R50 710</td>
</tr>
<tr>
<td>Bachelor of Social Work</td>
<td>R49 190</td>
</tr>
</tbody>
</table>

**Science**

<table>
<thead>
<tr>
<th>Programme</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science (BSc)</td>
<td>R50 460</td>
</tr>
</tbody>
</table>

**South African citizens** will be expected to make a first payment prior to, or during enrolment before being permitted to enrol at the University. Applicants will be informed of this in writing. This amount is offset against the fee account.

**International applicants** pay fees at the beginning of the year. All International applicants must pay 75% of the tuition fees and related costs at the time of registration. The balance is to be paid by the end of March.

At the time of going to print, the tuition fees for 2020 were not available. These are the approximate tuition fees for the first year of study in 2019. Fees may increase by approximately 10% or more, so you need to add at least 10% to the figures listed on this page. Please note that the fees listed are for South African citizens only. International students pay a composite fee depending on the degree.
Paying for your Studies

There are various options open to you.

1. Self-funding
You can work before you study, to raise tuition fees. Another option is to work part-time while you study. But don’t over-extend yourself and fail your courses as a result.

2. Parents/guardian/religious groups
Your parents or guardian may be able to help you with funding, or their employers may offer student bursaries. Many church groups and other religious organisations also offer bursaries to their members. Make enquiries early, to find out what’s available to you.

3. A bank loan
Most major banks offer student loans at attractive interest rates. Bank loans usually cover the duration of study and must be repaid once you start working – or once you have graduated. Some banks offer a grace period to students who are completing internships, articles, or community service. Sometimes surety/security is required, which means that a relative, friend or sponsor must guarantee to repay the loan if you fail to do so. Visit a few local banks to find out what products they offer to students like you.

4. National Student Financial Aid Scheme (NSFAS)
Funded by Government, the National Student Financial Aid Scheme (NSFAS) provides financial assistance in the form of a loan. Like a bank loan, an NSFAS loan is repayable once you start working; specifically, once you are employed and are earning more than R30 000 per year. The period allowed for repayments varies according to individual circumstances, but special legislation allows the NSFAS to require employers to deduct loan repayments from the wages or salaries of borrowers.

What’s great about the NSFAS is that it rewards students who succeed academically. Your academic results are used to calculate rebates (discounts), so if you pass all of your courses in any one year, 40% of your annual loan will be converted to a bursary (a part of the loan that you don’t have to pay back). Furthermore, if you graduate within the minimum number of years required, you’ll have saved 40% of your loan each year, and you will owe far less than someone who takes longer to complete their degree.

---

Keep in Mind...Money Matters!

You need money to study & have fun!

Summary of Student Average Monthly Expences

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent</td>
<td>R3,650</td>
<td>Study Material</td>
<td>R850</td>
</tr>
<tr>
<td>(books &amp; stationery)</td>
<td></td>
<td>(books &amp; stationery)</td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>R3,213</td>
<td>Laptop</td>
<td>R850</td>
</tr>
<tr>
<td>Transport/Parking</td>
<td>R1,500</td>
<td>Mobile</td>
<td>R200</td>
</tr>
</tbody>
</table>

Extras you need to include in your monthly budget...

- Clothing
- Toiletries
- Field Trips
- Faculty Specific Expenses
- Medical
- Recreation
- Entertainment
1. First-time entering undergraduate students

If you’ve been made a firm offer by Wits University, you must formally accept the offer if you wish to study at Wits. Once you do so, the first fee payment of R9,340 is due.

There are certain conditions under which you may not need to make the first fee payment. These include students with provisional NSFAS offers; students on full scholarships/bursaries; and those who fall under the new funding threshold.

Students on full bursaries/scholarships

Students who have been given a full Wits University scholarship, or any other approved external bursary/scholarship, must present proof to the Financial Aid and Scholarships Office (FASO). You may not be required to make the first fee payment.

Please be aware that if you are a first-time student who has been awarded a bursary or scholarship by another funder, you won’t qualify for a full NSFAS bursary even if you meet the NSFAS eligibility criteria. You may, however, receive ‘top-up’ financial aid.

If you receive a Wits University Entrance Scholarship, and you are receiving a NSFAS grant or another bursary, you won’t be able to receive the monetary value of the award.
Household income below R350 000 per year

If you are a first-time student whose gross household income per year is under R350 000, you may qualify to receive funding in 2020; made available as a bursary with conditions. Students who apply and qualify for these bursaries will have to sign a contract with the NSFAS, including academic requirements and service requirements.

The actual cost of tuition and prescribed study materials will be covered, and qualifying students may also be eligible for subsidised accommodation and living costs (including meals). Where meals are not included in the cost, there may be a separate allowance.

You’ll need to:
(a) Request a deferral of the first fee payment via the Self-Service Portal [https://self-service.wits.ac.za](https://self-service.wits.ac.za)
(b) Tick the block to indicate that your gross household income is under R350 000 per year.

Your registration service indicator will be dropped and you will be directed to a link to download the NSFAS consent form.
(c) Please complete the NSFAS consent form, sign it, and either scan it and email it to nsfas@wits.ac.za or precious.nkosi@wits.ac.za or drop off the signed original form at the Financial Aid Office on the Ground Floor of Solomon Mahlangu House.

Household income of R350 000-R600 000 per year

If your gross household income per year is between R350 000 and R600 000, you may qualify to have your 2020 fee increase paid for by Government. You’ll need to:
(a) Apply for gap grant funding via the Self-Service Portal [https://self-service.wits.ac.za](https://self-service.wits.ac.za)
(b) Log in and navigate as follows:
• Select Financial Aid and Residence
• Select Apply for Scholarships and Bursaries
• Select Aid Year 2019
• Select Apply/Update Application
• Select Funding Type
• Select DHET GAP Funding

**Students who cannot afford the first fee payment**

If you find that you can’t afford the first fee payment, please access the self-service portal at [https://self-service.wits.ac.za](https://self-service.wits.ac.za) and acknowledge that payment can only be made by 31 March 2020, by which time all fees should be settled in full. If you’re still unable to pay, you will need to sign an Acknowledgement of Debt.

2. International students

Do you have a valid visa?
• Full-time students: You’ll need a Study Visa that shows that you will be studying at the University of the Witwatersrand, Johannesburg.
  • Part-time students: You’ll need a Critical/General Work Visa or an Intra-Company or Business Visa permitting you to work in South Africa.
  • Holders of Refugee Permits, Asylum-Seeker Permits and Diplomatic Visas: Please visit the International Students Office website at [www.wits.ac.za/internationalstudents/](http://www.wits.ac.za/internationalstudents/)

In general, here’s what you will need to do:
• Generate a fees quotation from the student self-service portal: [https://self-service.wits.ac.za](https://self-service.wits.ac.za)
Course codes can be obtained from the relevant faculty office.
• Pay 75% of the tuition fees and related costs before annual enrolment. (The remaining 25% must be paid by 31 March 2020.
• Once payment has been made, submit proof of payment to the Wits Fees Office, which will provide your Fees Clearance form.
• **Note:** If you are sponsored, your sponsorship letter must be vetted by the Financial Aid and Scholarships Office (FASO).
• Present your passport, relevant visa and proof of current SA medical aid membership to the International Students Office, to obtain clearance to register.

There’s more information here: [www.wits.ac.za/registration/international-students/](http://www.wits.ac.za/registration/international-students/)
Scholarships

University Entrance Scholarships

For Matriculants only

Awards are calculated according to the Wits Admission Point Score (APS).

Scholarships are for a maximum of six subjects and exclude Life Orientation.

- APS of 51+ (R42 000)*
- APS 48-50 (R30 000)*
- APS 45-47 (R15 000)*
- APS 43-44 (R10 000)*
* excluding Life Orientation

Scholarship students are still eligible for NSFAS top-up funding.

Conditions

No application is necessary as the award is given automatically.

The scholarship is applicable for the year of registration.

Students who took a gap year (limited to one year only) may still be eligible for a University Entrance Scholarship. Please advise the Financial Aid and Scholarships Office (FASO) of this when you register.

If the examination authority issued you with remarked results, please give these to the University’s Student Enrolment Centre by 30 September of the year for which the scholarship has been awarded.

Vice-Chancellor’s Scholarships

Wits rewards academic excellence!

R60 000 is awarded to the 10 most outstanding Matriculants who apply to Wits. No application is necessary as the award is given automatically. The highest marks in a maximum of six subjects are considered and the six subjects must include:

- Two official languages (incl. English)
- Mathematics and Physical Science
- Two other designated subjects

The scholarship is renewable for each year of the first undergraduate degree, provided that academic performance remains of a high standard. The scholarship also increases annually as agreed by the Financial Aid and Scholarships Committee.

Equality Scholarships

An initiative led by the Vice-Chancellor, Professor Adam Habib, these scholarships target the top-performing students in Quintile 1 and 2 schools, who have performed outstandingly in their Matric year and who have been offered a place at the University.

Sports Scholarships

If you have represented your province or South Africa in top-level sport and display the appropriate academic potential, you may be eligible for a Wits Sport Bursary. Terms and conditions are outlined in the Wits Sport Bursary application form, which can be downloaded from: www.wits.ac.za/sport/sports-bursaries/

Applications must be received by 31 August 2019.

National Olympiad Winners

For Maths and English Olympiad winners

- R20 000 for winners
- R8 000 for top 10 runners up

Students must provide the University’s Financial Aid and Scholarships Office (FASO) with a certified copy of their Olympiad certificate.

Foreign Results

South African students who have completed a foreign qualification such as an A Level, AS Level, IB or German Abitur, may be eligible for recognition of distinctions achieved in these qualifications. The award is up to a maximum of R30 000. Academically excellent applicants with foreign school-leaving qualifications may also apply on an ad hoc basis.

IMPORTANT NOTE:

If a student receives an external bursary that is more than the maximum allocation of R155 000, regardless of the source, the student will be required to return sponsorship funding. This is to enable the University to assist other Wits students. Please also note that all Wits awards will be cancelled and forfeited if a student deregisters.
Choose your Programme
Choose your Programme from 5 Faculties

Commerce, Law and Management

www.wits.ac.za/clm/

The Faculty of Commerce, Law and Management offers world-class educational programmes that equip future leaders with business, management, and legal skills, while supporting your professional development.

We offer a wide range of undergraduate and postgraduate qualifications through:

- School of Accountancy
- School of Economic and Business Sciences
- School of Law
- Wits Business School*
- Wits School of Governance*
- Wits Plus Centre for Part-Time Studies

Our degrees include the Bachelor of Commerce (BCom) with flexible major combinations, and more specialised degrees, like:

- BCom(IS)
- BCom(Acc)
- BCom(PPE)
- BCom(Law)
- BAccSc
- BEconSc
- LLB

*The Wits Business School and the Wits School of Governance offer postgraduate programmes only.

---

Engineering and the Built Environment

www.wits.ac.za/ebe/

Degrees offered through the Faculty of Engineering and the Built Environment address South Africa’s social, spatial, and infrastructural needs, and include architecture, urban and regional planning, property studies, and quantity surveying.

This Faculty comprises seven Schools:

- Architecture and Planning
- Civil and Environmental Engineering
- Chemical and Metallurgical Engineering
- Construction Economics and Management
- Electrical and Information Engineering
- Mechanical, Industrial and Aeronautical Engineering
- Mining Engineering

We offer a range of undergraduate programmes, including:

- Engineering, in a range of fields
- Biomedical Engineering (within Electrical Engineering)
- Environmental Engineering (within Civil Engineering)  
  - Architecture
  - Urban and Regional Planning
  - Property Studies
  - Construction Studies
The Wits Faculty of Health Sciences pioneers African and global research that improves and saves lives. Join a community of achievers and help to shape the future.

The Bachelor of Health Sciences offers three fields of study: Biokinetics, Biomedical Sciences, and Health Systems Sciences.

We offer degrees in:
- Clinical Medical Practice
- Dentistry
- Medicine
- Nursing
- Occupational Therapy
- Pharmacy
- Physiotherapy

You will receive academic and practical training at five major hospitals in Johannesburg, at several clinics and rural hospitals in Gauteng, and at the Donald Gordon Medical Centre, which also assists clinicians with all aspects of their clinical research.

More than 500 students graduate from our faculty every year.

The Faculty of Humanities is among Africa’s leading centres of study in the Arts, Social Sciences, Human and Community Development, Education and Literature, and Media.

Choose between vocationally oriented programmes for specific careers, and theory and research-oriented programmes for careers in academia and research institutes, the public and private sectors, and non-governmental organisations.

There are five Schools in the Faculty of Humanities:
- Wits School of Arts (WSoA)
- Wits School of Education (WSoE)
- School of Human and Community Development (SHCD)
- School of Literature, Language and Media (SLLM)
- School of Social Sciences (SoSS)

Studying science opens doors to careers in fields like medical research, chemistry, computer science, biotechnology, genetic engineering, and environmental sciences. The Faculty of Science has a long tradition of excellence in teaching and research.

There are nine Schools in the Faculty, clustered into four groupings:
- Mathematical Sciences
- Physical Sciences
- Earth Sciences, and the
- Biological Sciences
Faculty of Commerce, Law and Management

Equipping future leaders with business, management, and legal skills

How to Structure your BCom Degree .................. 51
Flexible Major Combinations ...... 52
Programmes
The Wits BCom ............................ 56

Accounting ............................... 57
Accounting Science ....................... 58
BCom(Law) ................................. 59
Economic Science ......................... 60
Information Systems .................... 61

Politics, Philosophy and Economics .................. 62
Law Programmes .......................... 64
- BLaws two-year stream ............. 65
- BLaws three-year stream ......... 66
- BLaws four-year stream ......... 67
How to structure your BCom degree

First things first

The Wits BCom includes compulsory first-year courses that build foundational knowledge in Economics, Accounting, Commercial Law, Information Systems, and Introductory Mathematics and Business Statistics. These courses prepare you for a career in the commercial and related sectors of any economy.

You can either take them as full-year courses across both semesters of the academic year, or as semester courses in the first or second semesters. In some cases, you must pass one course before proceeding to another.

Two or three majors?

The Wits BCom is a double major degree, which means you need to complete at least two full majors. But, in your second year, you can choose courses or modules that lead to three potential majors.

By choosing three majors in your second year, you can start exploring areas of interest in more depth, but make a final decision later.

You must have at least one major from Commerce, Law and Management (CLM); your second major could be from another faculty, like Science or Humanities. However, many students take both majors from disciplines offered within CLM.

Still deciding? Go General.

One of the great benefits of a Wits BCom General degree is that you don’t have to commit to your major choices in first year. Even if you choose one of the more specialised BCom degrees (e.g. BCom Law or BCom PPE), you can easily move between degrees if you change your mind later.

From second year onwards, BCom General students select their majors from either:


• Courses offered in the School of Accountancy (i.e. Auditing, Taxation, and Management Accounting); or

• Selected approved majors from other faculties.

Faculty officers can advise you on your options at registration or during the year.

Structure of the Wits BCom

<table>
<thead>
<tr>
<th>1st year</th>
<th>2nd year</th>
<th>3rd year</th>
</tr>
</thead>
<tbody>
<tr>
<td>compulsory</td>
<td>choose your majors</td>
<td>choose your majors</td>
</tr>
</tbody>
</table>

- Economics IA
  - OR
  - Economics Theory IA
  - Economics IB
  - OR
  - Economics Theory IB
  - Accounting I
  - AND
  - Computational Mathematics
  - Business Statistics
  - AND
  - Fundamentals of Information Systems
  - Commercial Law

- Potential Major
  - (second year level)
  - AND
  - Potential Major
  - (second year level)
  - AND
  - Potential Major
  - (second year level)

- Major 1
  - (third year level)
  - AND
  - Major 2
  - (third year level)
Flexible Major Combinations

**Economics**

Do you have a flair for problem-solving, reasoning, and analysis? Are you fascinated by how money makes the world go around? A career in Economics might be for you.

**What is Economics?**

Economics is the study of how, where, and why money and resources are produced, spent, and allocated by governments and businesses, and how this affects individuals. When you hear discussions about unemployment, monetary policy, budget deficit, and inflation, chances are an economist is involved. Since all businesses, organisations, and citizens are affected by local and global economies, every commerce graduate must complete at least one year of study in Economics.

**Major Combinations**

- Finance
- Information Systems
- Insurance and Risk Management
- Law
- Management
  OR
  Politics
  OR
  Philosophy as part of a BCom(PPE)

**Careers in Economics**

- Analyst
- Chief Executive Officer
- Chief Investment Officer
- Economic Consultant
- Economist
- Investment Analyst
- Investment Banker
- Journalist
- Manager
- Political Advisor or ‘Lobbyist’
- Policy Analyst
- Politician
- Researcher
### Finance

*Are you analytical and skilled at problem-solving and planning? Are you good with numbers and have you always been money-savvy? Consider a major in Finance.*

**What is Finance?**

Finance is the science of managing money. This involves two broadly related activities:

- The management of money by businesses (corporate finance), government (public finance), and individuals (personal finance); and
- The process of acquiring the funds needed to operate successfully.

Finance is the engine of all economies and stock markets and is central to their success (or failure). Some of the topics you will study include investments, equity and debt, assets and liabilities, credit, mergers and acquisitions, dividend policy, initial public offerings (IPOs), and financial regulations and decision-making.

**Major Combinations**

- Economics
- Information Systems
- Insurance and Risk Management
- Law
- Management

**Careers in Finance**

- Chief Executive Officer
- Chief Financial Officer
- Chief Investment Officer
- Financial Advisor
- Financial Journalist
- Financial Risk Manager
- Investment Analyst
- Investment Banker
- Merchant Banker
- Portfolio Manager
- Public Sector Consultant
- Stock Broker

### Human Resource Management

*Are you a great communicator who relates well to people? Do you have excellent problem-solving skills, with the ability to ‘see both sides'? Studying Human Resource Management may be a great choice for you.*

**What is Human Resource Management?**

Human Resource Management (HRM) involves managing people within organisations to optimise their performance. HRM studies focus on people-related policies and systems. They are also concerned with change in organisations and industrial relations, such as recruitment, talent management, employee development and motivation, and compensation.

**Major Combinations**

- Management
- Psychology
- Law
- Information Systems
- Economics
- Marketing

**Careers in Human Resource Management**

- Consulting
- Human Resource Management
- Industrial Relations Management
- Management
- Negotiations
- Recruitment and Talent Management
- Strategic Planning
- Training and Development
Information Systems

Are you fascinated by the relationship between technology, people, organisations, and societies? Are you the first to download and use the latest app? Do you enjoy solving real-world problems? Information Systems might be the career path for you.

What is Information Systems?

Information Systems (IS) enable individuals, organisations, and society to gather, store, organise, protect, retrieve, share, and analyse information. Though technologies play a vital part in these systems, IS studies also focus on systems design in their entirety. This is how IS differs from information technology (IT) or computer science, which only study the technology components.

IS professionals work in all sectors of the economy, including large organisations.

Major Combinations

• Finance
• Marketing
• Computer Science
• Management
• Economics
• Law
• Psychology

Careers in Information Systems

• Application Developer
• Business Analyst
• Change Manager
• Chief Information Officer
• IT Auditor
• IT Consultant
• Project Manager
• Systems Analyst
• Technology Architect
• UX/UI Designer

Insurance and Risk Management

Does risk management and the probability of disaster fascinate you? Are you analytical and focused, with good attention to detail? A career in insurance and risk management might be for you.

What is Insurance and Risk Management?

Insurance is how companies and individuals protect themselves against the risk of loss, and against loss itself. This may involve property, life, health, or income. Insurance is a form of risk management.

Risk management refers to the way in which risks are identified, assessed, and prioritised, and the means used to minimise, monitor, and control the threat posed by unpredictable events.

Major Combinations

• Economics
• Finance
• Law
• Management

Careers in Insurance and Risk Management

• Appraiser
• Asset Manager
• Claims Adjustor
• Compliance Officer
• Insurance Analyst
• Insurance Broker
• Financial Advisor
• Sales Representative
• Underwriter

Wits offers professional development in this field outside of actuarial science studies. There is a high demand for graduates with insurance and risk management knowledge in senior management positions within this industry.
**Management**

Do you have a flair for planning, organising, and teamwork? Are you an effective communicator who can motivate others? Do you see yourself leading a Fortune 500 company, or as South Africa’s next successful entrepreneur? If so, consider majoring in Management.

**What is Management?**

Management studies how organisations – be they businesses, government bodies, or non-profit organisations – are run and administered. Topics covered include: leadership and the role of managers; managing individuals, groups, and teams; organisational development and behaviour; project management and strategic management; and the theory and practice of entrepreneurship and new venture creation.

Those with an entrepreneurial flair may start their own businesses, or become small business advisors or business consultants.

**Major Combinations**

You can choose from almost any discipline, because most graduates eventually move into leadership positions in their careers.

**Careers in Management**

- Compliance Manager
- Manager in Public Works and Health
- Manager in Tourism
- Marketing Manager
- Operations Manager
- Project Manager
- Strategic Planning Director
- Training Manager

Top Management posts include:

- Chief Executive Officer
- Chief Operating Officer
- Company President
- General Manager
- Managing Director

**Marketing**

Are you fascinated by trends, and why certain brands are more successful than others? Do you ever wonder what makes last season’s ‘must-haves’ suddenly ‘so last year’? Would you love to shape the world’s consumer desires? Marketing could be your dream career.

**What is Marketing?**

The role of marketing in business is to build brand profiles and persuade people to buy products. Technology, travel, entertainment, services, apps, and games - even your favourite musician or sports team - all of these are marketed.

Marketing includes the creation and design of images and products (branding), advertising, demand creation and management, public relations, and digital marketing.

**Major Combinations**

- Management
- Information Systems
- Psychology
- Finance
- Economics
- Human Resource Management

**Careers in Marketing**

- Advertising Manager
- Brand Manager
- Events Manager
- Market Research Manager
- Project Manager
- Promotions Manager
- Public Relations Manager
- Sales Manager

[www.wits.ac.za/bcom/structuring-your-wits-bcom/](http://www.wits.ac.za/bcom/structuring-your-wits-bcom/)
Invest in your future with a Wits BCom. Establish a strong knowledge foundation, build your intellectual capital, and take the first step towards future-proofing your career.

Bachelor of Commerce (General)

CBA00

Duration
3 years

NSC Requirements

APS
39+

English Home Language OR First Additional Language
Level 5
Mathematics
Level 5

Wait listing
Applicants with an APS of 35-38, as well as English 6 and Mathematics 6, will be wait-listed subject to place availability.

International Qualifications on page 27

Closing Date: 30 September

Careers

• Chartered Certified Accountant
• Chartered Financial Analyst
• Internal Auditor
• Management Accountant
• Management Consultant
• Professional Accountant

Programme Description

Associated with one of the highest graduate employment rates in the country, a Wits BCom makes you highly sought-after, both locally and internationally.

Curriculum

First year
Accounting I
Computational Mathematics I
Business Statistics I
Commercial Law I

Economics IA (Microeconomics)
Economics IB (Macroeconomics)

OR

Economic Theory IA (Microeconomics for Economists)
Economic Theory IB (Macroeconomics for Economists)

AND, one of the following:

Information Systems IA

OR

Fundamentals of Information Systems

Second year

Economics and Finance
Economics and Management
Finance and Management
Finance and Insurance and Risk Management
Insurance and Risk Management and Management
Marketing and Management
Marketing and Human Resources Management

Human Resource Management and Management

Third year

Economics and Finance
Economics and Management
Finance and Management
Finance and Insurance and Risk Management
Insurance and Risk Management and Management
Marketing and Management
Marketing and Human Resources Management

Human Resource Management and Management
Accounting

Bachelor of Commerce (Accounting)

CBA14

Duration
3 years

NSC Requirements

APS
39+

English Home Language OR First Additional Language
Level 5

Mathematics Level 5

Wait listing
Applicants with an APS of 35-38, as well as English 6 and Mathematics 6, will be wait-listed subject to place availability.

International Qualifications on page 27

Closing Date: 30 September

Careers

• Chartered Certified Accountant
• Chartered Financial Analyst
• Internal Auditor
• Management Accountant
• Management Consultant
• Professional Accountant

Programme Description

The three-year, full-time BCom Accounting programme includes compulsory and elective courses.

The choice of courses within the BCom Accounting programme allows you to tailor your degree to meet your career aspirations. With this degree, you can become a chartered financial analyst (CFA) in the USA or SA, a professional accountant registered with the South African Institute of Professional Accountants (SAIPA), a management accountant registered with the Chartered Institute of Management Accountants (CIMA), a certified internal auditor (CIA) or a chartered certified accountant registered with the Association of Chartered Certified Accountants (ACCA).

If you want to pursue the ACCA qualification, please refer to the admission requirements for the Postgraduate Diploma in Specialised Accountancy.

Curriculum

First year

Accounting I
Economics IA (Microeconomics)
Economics IB (Macroeconomics)
Commercial Law I
Computational Mathematics I
Business Statistics I

Second year

Accounting II
Management Accounting and Finance II
Taxation II
Auditing II

Third year

A minimum total of 120 credits must be taken from the following courses—provided that you have satisfied the prerequisite courses. In order to qualify for the Bachelor of Commerce in the field of Accounting it is important to note that Accounting III must be completed.

Accounting III
Management Accounting and Finance III
Taxation III B
Auditing III

OR

Internal Auditing III

[57]  Bachelor of Commerce (Accounting)
Accounting Science

Bachelor of Accounting Science
CBA08
Duration
3 years

NSC Requirements
APS
42+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 6
Wait listing
Applicants with an APS of 39-41, as well as English 6 and Mathematics 6, will be wait-listed subject to place availability.

International Qualifications on page 27
Closing Date: 30 September

Careers
• Charted Accountant
• Fund Manager
• Internal Auditor
• Tax Specialist

Programme Description

The Bachelor of Accounting Science (BAccSC) degree qualifies you as a Chartered Accountant. The programme includes four core areas of study: Management Accounting and Finance, Financial Accounting, Auditing, and Taxation. You will also take introductory courses in Economics, Commercial Law, Mathematics and Statistics, and Accounting Information Systems.

The curriculum is fully compliant with international accounting education requirements, as well as those of the following boards:
• South African Institute of Chartered Accountants (SAICA)
• Public Accountants and Auditors Board (PAAB)
• International Federation of Accountants (IFAC)

Once you’ve completed your BAccSc, you will need to complete a Higher Diploma in Accounting (HDipAcc), which is a one-year, full-time postgraduate programme. If you successfully complete the HDipAcc, you will be eligible to write the SAICA qualifying exams (otherwise known as Board Exams).

The exams are written in two parts, and you will need to complete a three-year training contract in the accountancy profession (Training in Public Practice) or in commerce and industry (Training Outside Public Practice). After writing your first exam, you will need to choose a specialist course in either Financial Management or Auditing. You will then write the second qualifying exam. Once you have successfully completed both exams, you will be eligible to register as a chartered accountant with SAICA.

Curriculum

Please note that this degree structure is changing and is currently under development.

First year
Accounting Information Systems
Financial Accounting I
Economics IA (Microeconomics)
Economics IB (Macroeconomics)
Commercial Law I
Computational Mathematics I
Business Statistics I

Second year
Financial Accounting II
Management Accounting and Finance II
Taxation II
Auditing II
Business Enterprise Law
Mercantile Law
A total of 24 credits must be taken from the following course:
Economics IIA
OR
Principles of Marketing and Consumer Behaviour
OR
Human Resources Management IIA

Third year
Financial Accounting III
Management Accounting and Finance III
Taxation III
Auditing III
Bachelor of Commerce (Law)

Bachelor of Commerce (Law)
CBA13
Duration
3 years
----------------------------------------------
NSC Requirements
APS
43+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Wait listing
Applicants with an APS of 35-42, as well as English 6 and Mathematics 6, will be wait-listed subject to place availability.
International Qualifications on page 27
Closing Date: 30 September
----------------------------------------------
Programme Description

If you are interested in a specific field in business but also want a background in law, the specialised BCom Law degree is a good option.

Curriculum
First year
Introduction to Law
Law of Persons
Economics IA (Microeconomics)
Economics IB (Macroeconomics)
OR
Economic Theory IA (Microeconomics for Economists)
Economic Theory IB (Macroeconomics for Economists)
Computational Mathematics I
Business Statistics I
Fundamentals of Information Systems
OR
Information Systems IA
Second year
Family Law
Constitutional Law
Constitutional Law: Bill of Rights
A total of 72 credits must be taken from the following courses:
At least 48 credits must make up the second year level of your second major.
• Corporate Finance II
• Investment II
• Principles of Management IIA
• Principles of Management IIB (Entrepreneurship)
• Economics IIA
• Economics IIB
• Consumer Behaviour
• Principles of Marketing
• Integrated Marketing Communications
• Retail Management
• Human Resources IIA
• Human Resources IIB (Labour relations)
• Insurance and Risk Management IIA
• Insurance and Risk Management IIB
• Information Systems IIA
• Information Systems IIB
Third year
Criminal Law
Delict
Jurisprudence
A total of 72 credits must be taken from the following courses provided you have done the equivalent in the second year of study:
Investment and Corporate Finance III
Operations Management
Project Management
Innovation and Intrapreneurship Management
Strategic Management
Economic Science III
OR
Economic Theory III
OR
Applied Development Economics III
Insurance and Risk Management III
Marketing IIIA
Marketing IIIB
Compensation and Benefits
Human Resources and Individual Performance
Human Resources and Organisational Performance
Organisational Theory
Management and Application of Information Systems
Information Systems Development Project

Bachelor of Commerce (Law)
Economic Science

Bachelor of Economic Science
CBA05
Duration
3 years

NSC Requirements
APS
42+
English Home Language OR
First Additional Language
Level 5
Mathematics
Level 6
Wait listing
Applicants with an APS of 39-41, as well as English Level 5 and Mathematics Level 7, will be wait-listed, subject to place availability. Applicants interested in Actuarial Science require Mathematics Level 7 and English Level 6.

International Qualifications on page 27
Closing Date: 30 September

Careers
• Actuary
• Budget Analyst
• Economist
• Field Marketing Associate
• Financial Analyst
• Industry Analyst
• Management Consultant
• Policy Analyst
• Statistician

Programme Description
The Bachelor of Economic Science (BEconSc) is a mathematically focused degree with majors in Economics and Mathematical Science.

The BEconSc is a specialist degree that builds strong analytical abilities for graduates wishing to work in fields like economics, actuarial science, or other business and data analytics fields.

You can choose to major in Mathematical Science from Actuarial Science, Computational and Applied Mathematics, Computer Science, Mathematics, and Mathematical Statistics.

The entrance requirements for the BEconSc degree are higher than those for the BCom. You should only consider it if you have a strong mathematical ability.

Curriculum
First year
Business Accounting I
Economic Theory IA
(Microeconomics for Economists)
Economic Theory IB
(Macroeconomics for Economists)
Algebra I
Calculus I
AND, one of the following groups:
Computational and Applied Mathematics I
OR
Basic Computer Organisation
Discrete Computational Structures
Introduction to Algorithms and Programming
Introduction to Data Structures and Algorithms
OR
Actuarial Science I
AND
Mathematical Statistics I

Second year
Economics IIA and IIB
AND
Basic Analysis II
Multivariable Calculus
Abstract Mathematics
Linear Algebra II
Transition to Abstract Mathematics II
Introduction to Mathematical Statistics
AND, one of the following groups:
Computational and Applied Mathematics II
OR
Database Fundamentals II
Mobile Computing II
Computer Networks II
Analysis of Algorithms II
OR
Mathematical Statistics II
OR
Actuarial Science II

Third year
Economic Science III
AND, one of the following groups provided you have done the equivalent in the second year of study and complied with the pre- and co-requisite courses
Computational and Applied Maths III
OR
Software Engineering III
OR
Software Design III
AND
Formal Languages and Automata III
Advanced Analysis of Algorithms III
Operating Systems and System Programming
OR
Number Theory III
OR
Topology III
Coding and Cryptography III
OR
Rings and Fields III
Differential Geometry III
OR
Leontief Systems III
Group Theory III
Real Analysis III
Complex Analysis III
OR
Mathematical Statistics III
OR
Actuarial Science III
Information Systems

Bachelor of Commerce (Information Systems)

CBA10

Duration
3 years

---

NSC Requirements

APS 39+

English Home Language OR First Additional Language

Mathematics Level 5

Wait listing

Applicants with an APS of 35-38, as well as English 6 and Mathematics 6, will be wait-listed subject to place availability.

International Qualifications on page 27

Closing Date: 30 September

---

Careers

The analytical, technical, business and communication skills gained through the BCom with specialisation in IS can lead to a wide range of career choices, including: Business Analyst, Systems Analyst, Consultant, Analyst Programmer, Application Developer, Technology Architect, Database Administrator, UX/UI Designer, IT Auditor, Project Manager, Change Manager, Chief Information Officer.

We regularly supply graduates to major professional services and banking organisations, including ABSA, Accenture, BSG, Deloitte, EY, First National Bank, Investec, Nedbank, PWC, Rand Merchant Bank and Standard Bank; technology organisations, including Amazon, Facebook, Google, Oracle and SAP; and telecommunications organisations, including Telkom, MTN and Vodacom. We also have many graduates working internationally.

Programme Description

The pervasiveness of technology in the knowledge economy has resulted in increasing demand for professionals with a unique blend of analytical, technical, business and communication skills.

Information Systems are systems that allow individuals, organisations and societies to gather, store, organise, protect, retrieve, share and make sense of the information in their environments.

In Information Systems, we study what happens when technologies, people, organisations and societies interact. Technology now lies at the heart of a dynamic, information and knowledge-driven world that needs people to point the way, people who “get it”. Our analysts solve “real world” problems, using technology to build systems that allow for quicker and smarter responses to changes in dynamic and complex environments.

It is important to note that we focus on the design of end-to-end solutions of which technology may be an element, and not only on technology for the sake of technology. This is what differentiates us from other disciplines such as Information Technology (IT), Computer Science and Software Engineering.

Curriculum

First year

Information Systems IA and IB

Accounting I

Computational Mathematics I

Business Statistics I

Economic IA (Microeconomics)

Economics IB (Macroeconomics)

OR

Economic Theory IA (Microeconomics for Economists)

Economics Theory IB (Macroeconomics for Economists)

Second year

Information Systems IIA and IIB

A total of 72 credits must be taken from the following courses. At least 48 of these credits must make up the second year level of your second major. Students who wish to pursue a second major in Computer Science must be aware of the prerequisite requirements for this course.

Corporate Finance II

Investment II

Economics IIA and IIB

Consumer Behaviour

Principles of Marketing

Integrated Marketing Communications

Retail Management

Principles of Management IIBA and IIB

Entrepreneurship

Insurance and Risk Management IIA and IIB

Human Resources IIA

Human Resources IIB (Labour Relations)

Third year

Management and Application of Information Systems

Information Systems Development Project

A total of 72 credits must be taken from the following courses:

Investment and Corporate Finance III

Economic Science III

Economic Theory III

Applied Development Economics III

Marketing IIIA and IIIB

Operations Management

Project Management

Innovation and Intrapreneurship Management

Strategic Management

Insurance and Risk Management III

Compensation and Benefits

Human Resource and Individual Performance

Human Resources and Organisational Performance

Organisational Theory
Politics, Philosophy and Economics

Bachelor of Commerce (Politics, Philosophy and Economics)

CBA12
Duration
3 years

---

NSC Requirements

APS
39+

English Home Language OR First Additional Language
Level 5

Mathematics
Level 5

Wait listing
Applicants with an APS of 35-38, as well as English Level 6 and Mathematics Level 6, will be wait-listed subject to place availability.

International Qualifications on page 27
Closing Date: 30 September

---

Careers

- Academia
- Civil Service
- Development
- Diplomatic Corps
- Economics
- International Banking or Finance
- Journalism
- Politics
- Research

Programme Description

The Politics, Philosophy and Economics BCom(PPE) specialisation gives you a broad and deep understanding of the world, as well as a wide range of thinking skills required for high-level engagement.

Specialising in PPE gives you an understanding of political, philosophical, and economic ideas; the nature of political institutions; political processes and decision-making; how economic systems work; the causes of poverty and wealth; and how to promote development.

In the first year, you will take economics, politics, and philosophy, as well as a selection of general BCom first-year subjects. From second to third year level, you will continue to major in economics and either politics or philosophy.

You can choose to do a BA(PPE) or to take politics or philosophy as part of a general BCom degree.

Curriculum

First year
Economic Theory IA (Microeconomics for Economists)
Economic Theory IB (Macroeconomic for Economists)
Introduction to Ethics
Introduction to Philosophy: Knowledge and Reality I
Introduction to Political Studies I
States, Power and Governance
Computational Mathematics I
Business Statistics I

**Second year**
Economics IIA and IIB
A student must choose between
Politics II and Philosophy II
History of Philosophy: A Classical and Early Modern Philosophy

**AND**, one of the following:
- Philosophy of Mind and Psychology II
- Philosophy of Religion II
- Philosophy of Science II
- Social and Political Philosophy II
- Theories of Justice II
- Continental Philosophy II
- African Philosophy

**OR**, two of the following:
- Social Theories of Modernity
- South Africa: Politics and Governance
- Black Consciousness Thought and the Politics of Anti-Racism

A total of 48 credits must be taken from:
- Corporate Finance II
- Investment II
- Principles of Management IIA
- Principles of Management IIB (Entrepreneurships)
- Insurance and Risk Management IIA
- Insurance and Risk Management IIB
- Human Resources IIA
- Human Resources IIB (Labour Relations)
- Consumer Behaviour
- Principles of Marketing IIA
- Integrated Marketing Communications
- Retail Management

**Third year**
Economic Science III

**OR**
Economic Theory III

**OR**
Applied Development Economics III
A total of 72 credits must be selected from either Politics III or Philosophy III, depending of what was taken in second year of study

**AND**
Epistemology and Metaphysics III

Ethics III
History of Philosophy B: Further Topics in Modern Philosophy III
Philosophy of Social Science
Select Movements in 20th Century Philosophy
Philosophy III
A selected topic in Philosophy III
Senior seminar in Philosophy
Philosophy of Language III
Symbolic Logic III
Philosophy of Art

**OR**
Development: Concepts and Experiences
Liberty, Justice and the Politics of Difference
Conflict and Stability in Postcolonial Africa
Selected topics in Political Studies
Introduction to Comparative Politics
Politics for Public Service
Post-Colonial Politics
Law Programmes

You have several options if you want to study law at Wits.

If you want to practise law, you need at least an LLB degree.

While it is possible to enter an LLB at first-year undergraduate level, you are encouraged to complete a BCom or BA degree first, preferably with law as one of your majors. This gives you a feeling for general law subjects before you commit to studying law. It also develops your knowledge and skills in other disciplines, which will be useful when you practise law.

If you want to work in corporate law, either for a law firm or in the legal department of large organisations, you should do a BCom(Law) with a second major in Finance, Management, Accounting, Taxation, or any other BCom major. However, if you want to work in human rights law, family law, constitutional law, or international law, you should begin your legal studies with a BA(Law) and pair this with courses like politics, sociology, economics, or languages.

Both the BCom(Law) and BA(Law) routes into the LLB include introductory and core LLB courses, taken over three years, which will be your majors. You can then complete your LLB degree over two years, with credits accrued during the undergraduate degree awarded towards your LLB.

This four-year programme comprises mostly law subjects with several Humanity or Commerce subjects at first-year level. You must take certain core law subjects if you wish to graduate with an LLB. Other subjects form a set of electives you can choose from.

You can also enter the LLB if you hold any undergraduate degree, without Law as a major. In this case, you will only have to complete the law courses required in the LLB and can complete the qualification in three years.

In both cases, you will develop critical thinking and analytical skills during your first degree, which enables you to progress through the LLB.
Bachelor of Laws (two-year stream)

LFA12
Duration
2 years

NSC Requirements
No matric APS calculation.
Wait listing
Once you have obtained a degree in BCom Law or BA Law, you may apply for the Wits two-year stream LLB programme. You will have to complete years three and four of the Wits LLB. There are no Matric admission criteria, but you must have obtained at least 65% in the final year of the BCom Law or BA Law programmes offered at Wits.
International Qualifications on page 27
Closing Date: 30 September

Careers
Students studying law at Wits can consider many careers both in the legal and related areas, bearing in mind that further study and requirements are necessary for certain roles. Roles might include:
• Advocate
• Arbitrator
• Attorney
• Conveyancer
• Judge
• Legal Advisor
• Legal Practitioner
• Legal, Risk and Compliance Consultant
• Magistrate
• Mediator
• Negotiator
• Professional Counsellor
• Prosecutor

Curriculum
Third year (first year of registration)
Law of Succession
Business Entities
Contract
Civil Procedure
Criminal Procedure
Ethics and Law: Theory and Practice
Evidence
Property
Public International Law

Fourth year (second year of registration)
Practical Legal Studies
Administrative Law
Customary Law
Insolvency
Labour Law
AND
Four electives
Bachelor of Laws (three-year stream)

---

**Curriculum**

Second year (first year of registration)
- Law of Persons
- Family Law
- Introduction to Law for Graduates
- Constitutional Law
- Constitutional Law: Bill of Rights
- Criminal Law
- Delict
- Jurisprudence

Third year (second year of registration)
- Law of Succession
- Business Entities
- Contract
- Civil Procedure
- Criminal Procedure
- Ethics and Law: Theory and Practice
- Evidence
- Property
- Public International Law

Fourth year (third year of registration)
- Practical Legal Studies
- Administrative Law
- Customary Law
- Insolvency
- Labour Law

**Careers**

Students studying law at Wits can consider many careers both in the legal and related areas, bearing in mind that further study and requirements are necessary for certain roles. Roles might include:

- Advocate
- Arbitrator
- Attorney
- Conveyancer
- Judge
- Legal Advisor
- Legal Practitioner
- Legal, Risk and Compliance Consultant
- Magistrate
- Mediator
- Negotiator
- Professional Counsellor
- Prosecutor

---

**Bachelor of Laws (three-year stream)**

LFA13

**Duration**

3 years

---

**NSC Requirements**

No matric APS calculation.

**Wait listing**

If you completed a degree with no law courses, you can apply for the three-year LLB, which means you would start in the second year of the degree.

There are no Matric admission criteria because we consider your academic records from your first degree. You must have obtained an average of least 65% in the final year of an undergraduate degree to be eligible for the three-year LLB.

**International Qualifications on page 27**

**Closing Date: 30 September**
Bachelor of Laws (four-year stream)

Bachelors of Laws (four-year stream)
LFA14
Duration
4 years

NSC Requirements
APS
46+
English Home Language OR Additional First Language
Level 6
Mathematics
Level 5
Maths Literacy
Level 6
Wait listing
Students who come to Wits immediately after Matric may apply for the four-year LLB.
Applicants with an APS of 40-45, as well as English Level 6 AND Mathematics Level 5 OR Maths Literacy Level 6, will be wait-listed, subject to place availability.
International Qualifications on page 27
Closing Date: 30 September

Careers
• Advocate
• Arbitrator
• Attorney
• Conveyancer
• Judge
• Legal Advisor
• Legal Practitioner
• Legal, Risk and Compliance Consultant
• Magistrate
• Mediator
• Negotiator
• Professional Counsellor
• Prosecutor

Students studying law at Wits can consider many careers both in the legal and related areas.

Curriculum
First year
Law of Persons
Family Law
Introduction to Law for LLB students
(Certificate of Competence in Computer Literacy)
AND
You must complete one or more courses from any other Faculty in the University, to the value of 36 LLB credits.
Second year
Constitutional Law
Constitutional Law: Bill of Rights
Law of Succession
Criminal Law
Delict
Jurisprudence
Third year
Business Entities
Contract
Civil Procedure
Criminal Procedure
Ethics and Law: Theory and Practice
Evidence
Property
Public International Law
Fourth year
Practical Legal Studies
Administrative Law
Customary Law
Insolvency
Labour Law
AND
Four electives
Engineering and the Built Environment

Our Bachelor of Science in Engineering or BSc(Eng) is fully accredited by the Engineering Council of South Africa (ECSA) and meets all academic requirements for you to register as an engineer in training. Further practical experience is necessary, however, before you can get professional recognition.

Under the 2000 Washington Accord, the BSc(Eng) has been officially recognised by professional engineering accrediting bodies in the US, Canada, Australia, New Zealand, the UK, Ireland, Japan, and Hong Kong.
Schools in Engineering

School of Chemical and Metallurgical Engineering
The School of Chemical and Metallurgical Engineering offers expertise in various fields of engineering and is involved in cutting-edge research activities spanning chemical, metallurgical, and materials engineering.

The four-year BSc(Eng) degree in Chemical or Metallurgical and Materials Engineering is continually reviewed, modified, and re-aligned to reflect best practices within the industry and the wider profession.

School of Civil and Environmental Engineering
The School of Civil and Environmental Engineering offers a four-year BSc(Eng) degree in Civil Engineering. In the first two years, you will develop your competency in mathematics, science, computing, communication, and engineering design and problem-solving.

In the third and fourth years, you will focus on geotechnical engineering, hydrology, hydraulics, infrastructure planning and management, structural engineering, and construction materials.

School of Electrical and Information Engineering
The School of Electrical and Information Engineering has extensive research laboratory facilities, including those for machines and drives, electronics, high voltage, lightning and EMC, telecommunications, information engineering, biomedical engineering, computational electromagnetics, and systems and control. Bioinformatics has also been added as a competency.

The School is a partner of the Johannesburg Centre for Software Engineering and is involved in a renewable energy research initiative at Masters and PhD Level, with particular focus on wind, solar, and smart grids. The School has also incubated two high-tech companies and our staff are active academic research and industrial consultants.

School of Mechanical, Industrial, and Aeronautical Engineering
The Departments within the School of Mechanical, Industrial, and Aeronautical Engineering have produced world-class engineers and have remained at the forefront of engineering in South Africa for over 100 years.

Mechanical Engineering
Mechanical engineers design, develop, construct, and use the machines and systems found in all areas of industry.

Industrial Engineering
Industrial engineers study complex systems, processes, and technology in order to devise efficient systems.

Aeronautical Engineering
Aeronautical engineers design, develop, and modify aircraft components and systems.

In addition, there are two further options available:

Nuclear Engineering
After completing a three-year BSc following a fixed curriculum (including courses from the first two years of Mechanical Engineering), you may enter the Mechanical Engineering stream in the third year. After five years, you will graduate with both a BSc and a BSc(Eng), specialising in Nuclear Engineering.

Industrial Engineering
After you have completed two years of study in any engineering stream, you may enter the Industrial Engineering stream in third year. You will graduate as an industrial engineer, but with a background in another engineering discipline, such as chemical or electrical engineering.

School of Mining Engineering
The School of Mining Engineering is one of the world's leading mining engineering schools.

The School, in consultation with the South African mining industry, gives you the engineering knowledge that you will need as a practising mining engineer. This includes technical subjects for specialist skills in mining, mineral resource management and evaluation, and rock engineering, as well as management skills in evaluation techniques and fundamental mineral economic principles.
A common first year programme was introduced from 2019 across all professional engineering disciplines.

Common first year programme

A common first year programme was introduced from 2019 across all professional engineering disciplines.

The academic curriculum is regularly modernised in order to ensure that it meets the highest professional and academic standards and that it simultaneously remains locally relevant and applicable.

Many engineering students entering the engineering programmes have a limited knowledge of the different branches of engineering and only gain the knowledge to make an informed choice of programme during their first year. A first year curriculum that is identical for all programmes allows students to amend their choice at the end of the first year.
Chemical Engineering involves large-scale industrial processes that convert raw materials – by physical or chemical change – into products with higher economic and social value. For example, coal, petroleum, natural gas, vegetation, and microorganisms are converted into fuels and chemicals. Chemical engineers are needed in fields such as plastics, oil refinery, explosives, fertilisers, detergents, and food and mineral processing. Chemical engineering plays an important role in society by minimising and controlling the impact of modern industry on the environment, society, and businesses.

The curriculum therefore includes courses on environmental engineering, management principles, and professional practice and ethics. Courses such as Chemical Engineering Thermodynamics, Chemical Reactor Theory, Process Control, Solid Fluid Systems, Transport Phenomena, Mass-Transfer Operations, and Chemical Plant Design are studied after first year. In final year, you will study elective subjects in advanced chemical engineering topics. You need a thorough understanding of Mathematics, Physics and Chemistry, and must be computer literate.

Curriculum
First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB

Second year
Chemistry II
Mathematics II
Computing for Process Engineering
Process Engineering Fundamentals A and B
Energy Balances and Applications
Electrical Engineering

Third year
Applied Thermodynamics
Chemical Engineering Thermodynamics
Chemical Engineering Laboratory
Mass Transport and Operations
Chemical Reaction Engineering A and B
Process Design Principles A and B
Numerical Methods
Environmental Process Engineering
Momentum and Heat Transport

Fourth year
Management for Process Engineers
Solid Fluid Systems
Chemical Engineering Design
Process Control
Chemical Engineering Research Project
Biochemical Engineering
and three of the following:
Hydrometallurgy
Fundamentals of Mineral Processing
Advanced Chemical Reaction Engineering
Waste Water Engineering
Synthetic fuels
Metallurgy and Materials Engineering

Bachelor of Science in Engineering in Metallurgy and Materials Engineering
EFA08
Duration 4 years

Curriculum

First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB
Engineering Mathematics IA and IB
Engineering Physics IA and IB
Applied Mechanics for Engineering
Elective from Faculty of Humanities

Second year
Chemistry II (Metallurgy)
Mathematics II
Introductory Mineralogy and Earth Sciences
Computing for Process Engineering
Introduction to Extractive Metallurgy
Practical Metallurgy
Material Science and Engineering
Process Engineering Fundamentals
Electrical Engineering
Economic Concepts IA

Third year
Numerical Methods (Metallurgy)
Metallurgical Thermodynamics I and II
Engineering Failure Analysis
Kinetics and Transport Processes in Metallurgical Engineering
Solidification, Heat Treatment and Microstructure
Environmental Process Engineering
Crystal Structure and Analysis
Process and Materials Design I and II
Corrosion and Wear
Non-Ferrous Pyrometallurgy
Engineering statistics

Fourth year
Physical Chemistry of Iron and Steel
Manufacturing Metallurgical Design
Research Project Management for Process Engineers
Particulate Systems
Process Control
Welding and Forming Processes
Structure and Properties of Engineering Materials
Hydrometallurgical Processes

as well as a career in technical management.

Programme Description

Design, operate, and manage industrial plants that convert minerals and metals into valuable products.

Metallurgy and Materials Engineering involves the engineering principles required to concentrate, extract, and refine metals, materials, and carbon (coal) materials, as well as to develop new alloys and materials, including ceramics and composites.

Core subjects in Materials Engineering focus on the structure and behaviour of materials and their conversion into usable forms (through heat treatment, welding and forming processes, and powder metallurgy). As in Chemical Engineering, the Materials Engineering curriculum also focuses on the issues of environmental engineering, management, and professional ethics.

There is a strong emphasis on design and project work, with the programme culminating in an extensive laboratory project and a large design project. The degree programme provides a sound foundation for future postgraduate study.
Civil Engineering

Bachelor of Science in Engineering in Civil Engineering

EFA01
Duration 4 years

NSC Requirements

- APS 42+
- English Home Language OR First Additional Language Level 5
- Mathematics Level 5
- Physical Sciences Level 5

Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.
Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

International Qualifications on page 29

Closing Date: 30 September

Careers
- Bridge Engineer
- Earthquake Design Engineer
- Consulting Engineer
- Construction Manager
- Environmental Engineer
- Geotechnical Engineer
- Hydrologist
- Structural Engineer
- Water Resource Manager

Programme Description

Plan, design, and manage physical infrastructure.

Civil Engineering is the practice of improving and maintaining the built environment to enhance the quality of life for present and future generations.

Civil engineers primarily plan, design, construct, operate, and maintain physical infrastructure, including water and waste management facilities, transportation and communications infrastructure, and structures and public buildings. This all-important infrastructure supports people’s basic needs, while enabling and driving economic development.

In the first two years of study, you will focus on developing competencies in mathematics, science, computing, communication, and engineering design/problem-solving. In third and fourth years, you will take courses in Geotechnical Engineering, Hydrology, Hydraulics, Infrastructure Planning and Management, Structural Engineering, and Construction Materials.

Curriculum

First year
- Engineering Chemistry
- Introduction to the Engineering Profession
- Engineering Analysis and Design IA and IB
- Engineering Mathematics IA and IB
- Engineering Physics IA and IB
- Applied Mechanics for Engineering
- Elective from Faculty of Humanities

Second year
- Mathematics II
- Geology for Civil Engineers
- Engineering Computing
- Introduction to Environmental Engineering
- Engineering Economics and Infrastructure Planning
- Materials and Structures I and II
- Numerical Methods
- Probability Theory and Mathematical Statistics for Engineers
- Engineering Surveying
- Practical Training
- Vacation Work I

Third year
- Construction Materials I
- Geotechnical Engineering I
- Structural Steel Design
- Reinforced Concrete Design
- Hydrology
- Fluid Mechanics and Hydraulics
- Structural Analysis I and II
- Transport Engineering
- Systems Analysis and Optimisation
- Vacation Work II

Fourth year
- Construction Materials II
- Structural Engineering
- Civil Engineering Design
- Geotechnical Engineering II
- Investigational Project
- Integrated Resource Management
- Hydraulic Engineering
Bachelor of Science in Engineering in Electrical Engineering
EFA03
Duration 4 years

NSC Requirements
APS 42+
English Home Language OR First Additional Language Level 5
Mathematics Level 5
Physical Sciences Level 5

Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability. Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

International Qualifications on page 29
Closing Date: 30 September

Careers
• Antennas Engineer
• Computer Engineer
• Control and Automation Engineer
• High Voltage Engineer
• Machines and Drives Engineer
• Power Engineer
• Power Systems Manager
• Telecommunications Engineer

Programme Description
Design, operate, and manage communications, IT, electric power, and automation technology.

Electrical Engineering covers a broad range of activities involving the generation and use of electrical energy, including the planning and operation of large power-generating stations, computing and information transfer, and telecommunications systems.

An Information Engineering option is also offered within the programme.

In the first two years, all Electrical Engineering students focus on enhancing their capabilities in mathematics, physics, and chemistry. In the third year, you will study Electrical Engineering Science subjects and take more advanced courses in mathematics, such as Electronics, Power Engineering, Electro-magnetic Engineering, and Mathematical Methods.

In the final year, you will study five complementary courses, including Engineering Design, Engineering Laboratory, and Systems Management. You will also choose three elective courses to specialise in either Electrical or Information Engineering. Engineering Design and Engineering Laboratory are project-based subjects in which you are required to submit a report for examination.

Curriculum
First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB
Engineering Mathematics IA and IB
Engineering Physics IA and IB
Applied Mechanics for Engineering
Elective from Faculty of Humanities

Second year
Mathematics II
Physics II (Electrical)
Data Structures and Algorithms
Electric Circuits
Electronics I
Electrical and Magnetic Systems
Software Development I
Signals and Systems I
Microprocessors
Vacation Work I

Third year
Mathematical Methods
Electromagnetic Engineering
Electronics II
Power Engineering
Probabilistic Systems Analysis
Software Development II
Signals and Systems IIA and IIB
Control I
Electrical Engineering Design
Economics of Design
Vacation Work II

Fourth year
Electrical Engineering Design II
Electrical Engineering Laboratory
Measurement Systems
Selected Topics in Sociology Systems Management and Integration

AND, any three courses from the following:
• High Frequency Techniques
• High Voltage Engineering
• Software Engineering
• Software Development III
• Electromechanical Conversion
• Control II
• Power Systems
• Data Intensive Computing in Data Science
Information Engineering

Bachelor of Science in Engineering in Information Engineering

EFA03

Duration
4 years

NSC Requirements

APS
42+

English Home Language OR
First Additional Language
Level 5

Mathematics
Level 5

Physical Sciences
Level 5

Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.

Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

International Qualifications on page 29

Closing Date: 30 September

Programme Description

Plan, design, and manage complex software systems.

The Information Engineering degree focuses on Software Engineering, Telecommunications, and Computer Networking.

In the first two years, you will focus on enhancing your capabilities in mathematics, physics, and chemistry. At the beginning of the third year, you can choose to continue with the Electrical Engineering degree or register for the Information Engineering degree.

In the final year, you will study five complementary courses, including Engineering Design, Engineering Laboratory, and Systems Management. You will also choose three elective courses, to specialise in either Electrical or Information Engineering. Engineering Design and Engineering Laboratory are project-based subjects in which you are required to submit a report for examination.

Curriculum

First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB
Engineering Mathematics IA and IB
Engineering Physics IA and IB
Applied Mechanics for Engineering
Elective from Faculty of Humanities

Second year
Mathematics II
Physics II (Electrical)
Data Structures and Algorithms
Electric Circuits
Electronics I
Electrical and Magnetic Systems
Software Development I
Signals and Systems I
Microprocessors
Vacation Work I

Third year
Computational Mathematics
Electronics II
Probabilistic Systems Analysis
Software Development II
Signals and Systems IIA and IIB
Data and Information Management
Control I
Electrical Engineering Design
Economics of Design
Communication Fundamentals
Vacation Work II

Fourth year
Measurement Systems
Information Engineering Design
Information Engineering Laboratory
Selected Topics in Sociology
Systems Management and Integration
and, any three courses from the following:

• Software Engineering
• Software Development III
• Control II
• Network Fundamentals
• Data Intensive Computing in Data Science

Careers

• Computer Engineer
• Information Engineer
• Software Developer
• Software Engineer
• Software Project Manager
• Software Systems Architect
• Network Engineer
• Telecommunications Engineer
Specialisation in Biomedical Engineering

Bachelor of Engineering Science in Biomedical Engineering

EBA00
Duration
3 years

NSC Requirements

APS 42+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Physical Sciences
Level 5
Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.
Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.
International Qualifications on page 29
Closing Date: 30 September

Careers

Physicist or Electrical Engineer or Medical Professional working in the development of:
- Artificial Organs
- Information Technology for Healthcare
- Medical Imaging System Design (e.g. ultrasound or CT scanning)
- Modelling and simulation of physiological states and disease
- Therapeutic Equipment Design

Programme Description

Work at the cutting edge of research and development in healthcare systems.

Biomedical Engineering, which falls within the School of Electrical and Information Engineering, applies engineering and other quantitative sciences to solving medical and biological problems, for example, developing sophisticated X-ray imaging systems, artificial organs, image recognition systems, and medical devices, and provides a quantitative understanding of disease processes.

The three-year Bachelor of Engineering Science in Biomedical Engineering BEngSc (BME) undergraduate degree combines subjects in science, engineering, medicine, and biology, as well as specific Biomedical Engineering courses.

Because this is a pre-professional qualification, you will not be eligible for professional registration with this degree alone. After you graduate, there are various routes you can take to obtain a professional qualification, such as Medicine (MBBCh), BSc(Eng) in Electrical or Information Engineering, and BSc(Hons) in Physics.

You can apply for admission into the third year of BSc(Eng) in Electrical / Information Engineering. However, the entry requirements for MBBCh and BSc(Hons) in Physics are competitive and may vary.

Curriculum

First year
- Introductory Molecular and Cell Biology I
- Introductory Physiology and Environmental Sciences I
- Chemistry I
- Engineering Mathematics IA and IB
- Engineering Physics IA and IB
- Applied Mechanics for Engineering

Second year
- Biomedical Statistics and Numerical Methods
- Electronics I
- Electric and Magnetic Systems
- Software Development I
- Signals and Systems I
- Microprocessors
- Electric Circuits
- Molecular and Cell Biology
- Mathematics II

Third year
- Anatomy
- Biomedical Transport Phenomena
- Biomedical Measurement, Instrumentation and Imaging
- Signals and Systems IIA
- Biomedical Signals
- Systems and Control
- Physiology and Medical Biochemistry I
**Bachelor of Engineering Science in Digital Arts**

EBA01

**Duration**
3 years

---

**NSC Requirements**

**APS**
42+

**English Home Language OR First Additional Language**
Level 5

**Mathematics**
Level 5

**Physical Sciences**
Level 5

**Wait-listing**
Students with English, Mathematics, and Physics at Level 5 will be wait-listed, subject to place availability.

Generally, applicants who achieve 70% in English, Maths, and Physical Science stand a greater chance of being accepted.

**International Qualifications on page 29**

**Closing Date:** 30 September

---

**Careers**

- Animation
- Game Design
- Software Engineer
- Software Development

---

**Programme Description**

*Work at the cutting edge of software development in gaming.*

Digital Arts is a specialised programme combining Electrical Engineering and Digital Arts courses to prepare you for a career in game design and development. The game design programme is a collaboration between the Wits School of Arts and the School of Electrical and Information Engineering.

Once you’ve completed the BEngSc in Digital Arts, you may continue into the third year of the BSc(Eng) (Electrical) or (Information Engineering) option, or into the Honours course in Digital Arts.

**Curriculum**

**First year**
- Engineering Analysis and Design IA and IB
- Engineering Mathematics IA and IB
- Engineering Physics IA and IB
- Applied Physics
- Key Concepts in Game Design IA and IB

**Second year**
- Data structures and algorithms
- Electronics I
- Electric and magnetic systems
- Software development I
- Microprocessors
- Electric Circuits
- Mathematics II
- Digital Art Design Project
- Introduction to Game Creation IIA and IIB

**Third year**
- Electrical and Magnetic Systems
- Signals and Systems I
- Professional Practice and Software Development
- Introduction to the World Wide Web as Creative Medium III
- Game Design IIA
- Game Design IIB
Mechanical Engineering

Bachelor of Science in Engineering in Mechanical Engineering
EFA05
Duration
4 years

NSC Requirements
APS
42+
English Home Language OR
First Additional Language
Level 5
Mathematics
Level 5
Physical Sciences
Level 5
Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.
Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

International Qualifications on page 29
Closing Date: 30 September

Careers
• Energy Engineer
• Mechanical Design and Development Engineer
• Manufacturing Engineer
• Systems Engineer
• Production Engineer
• Technical Marketing Manager
• Transport Engineer

Programme Description
Design, develop, and manufacture aerospace vehicles and component systems.

Mechanical Engineering applies scientific principles to design, develop, construct, install, operate, and maintain engines, energy harnessing equipment, and machines in all industries.

Mechanical engineers work in the most important sectors of the economy, including manufacturing, mining, power generation, and transportation.

Curriculum
First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB
Engineering Mathematics IA and IB
Engineering Physics IA and IB
Applied Mechanics for Engineering
Elective from Faculty of Humanities

Second year
Mathematics II
Electrical Engineering
Fluid Mechanics I
Mechanical Engineering Laboratory I
Engineering Thermodynamics I
Introduction to Materials Science and Engineering
Applied Mechanics A and B
Computer Skills and Software Development
Mechanical Engineering Design I

Third year
Mathematical Methods
Incompressible Flows
Mechanical Engineering Laboratory II
Mechanics of Solids I
Mechatronics I
Business Management
Fundamentals of Heat Transfer
Mechanical Engineering Design and Production
Mechanical Vibrations
Engineering in its Social Context
Numerical Methods and Statistics
Vacation Work I

Fourth year
Design Project
Research Project
Energy Conversion and Utilisation Systems
Systems Management and Integration
Compressible Flows
Mechanics of Solids II
Mechatronics II
Engineering Professional Activity
Vacation Work II
Bachelor of Science in Engineering in Industrial Engineering

EFA07

Duration
4 years

---

NSC Requirements

APS
42+

English Home Language OR First Additional Language
Level 5

Mathematics
Level 5

Physical Sciences
Level 5

Wait-listing
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.

Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

International Qualifications on page 29

Closing Date: 30 September

---

Programme Description

Improve and optimise productivity and quality in manufacturing and service companies.

Industrial Engineering studies the systems, processes, technology, and people that make up organisations. Industrial engineers are often involved ‘behind the scenes’, answering questions like:

- How do vehicle manufacturers economically produce hundreds of variations of the same vehicle?
- How can South Africa streamline its public healthcare delivery to ensure quality care for all?
- How can you safely and quickly send money to your family in another country, if they don’t have a bank account?

Curriculum

First year
Engineering Chemistry
Introduction to the Engineering Profession
Engineering Analysis and Design IA and IB
Engineering Mathematics IA and IB
Engineering Physics IA and IB
Applied Mechanics for Engineering
Elective from Faculty of Humanities

Second year
Mathematics II

---

Careers

- Enterprise Resource Planning Consultant
- Inventory Engineer
- IT Consultant
- Logistics Engineer
- Management Consultant
- Production and Operations Manager
- Process Engineer

---

Electrical Engineering
Fluid Mechanics I
Mechanical Engineering Laboratory I
Engineering Thermodynamics I
Introduction to Materials Science and Engineering
Applied Mechanics A and B
Computer Skills and Software Development
Mechanical Engineering Design I

Third year
Industrial Engineering Design
Industrial Engineering Laboratory
Mechatronics I
Business Management
Operations Management: Techniques
Manufacturing Technology: Processes
Principles of Organisational Behaviour
Engineering in its Social Context
Operations Research
Mathematical Topics (Industrial)
Mathematical Methods (Industrial)
Vacation Work I

Fourth year
Design Project
Research Project
Manufacturing Technology: Systems
Business Studies
Systems Management and Integration
Decision Support and Intelligence Systems
Operations Management: Systems Integration
Engineering Professional Activity
Vacation Work II
**Bachelor of Science in Engineering in Aeronautical Engineering**

EFA06

**Duration**
4 years

**NSC Requirements**

**APS**
42+

**English Home Language OR First Additional Language**
Level 5

**Mathematics**
Level 5

**Physical Sciences**
Level 5

**Wait-listing**

Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability.

Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.

**International Qualifications on page 29**

**Closing Date:** 30 September

---

**Programme Description**

*Design, develop, and manufacture vehicles and component systems.*

**Aeronautical Engineering**

Aeronautical Engineering is concerned with the design, development, and modification of the components and systems of all types of flight vehicles, including fixed wing aircraft, helicopters, sailplanes, missiles, and non-flying aerodynamic devices.

**Careers**

- Aircraft Design Engineer
- Aircraft Systems Design Engineer
- Airline Manager
- Automotive Aerodynamics Engineer
- Research
- Production Manager
- Propulsion Engineer
- Technical Director

**Curriculum**

**First year**

- Engineering Chemistry
- Introduction to the Engineering Profession
- Engineering Analysis and Design IA and IB
- Engineering Mathematics IA and IB
- Engineering Physics IA and IB
- Applied Mechanics for Engineering
- Elective from Faculty of Humanities

**Second year**

- Electrical Engineering
- Fluid Mechanics I
- Mechanical Engineering Laboratory I
- Engineering Thermodynamics

**Third year**

- Mathematical Methods
- Incompressible Flows
- Aeronautical Engineering Laboratory
- Aircraft Design
- Introduction to Aeronautics
- Mechatronics I
- Business Management
- Numerical Methods and Statistics
- Mechanical Vibrations
- Engineering in its Social Context
- Vacation Work I

**Fourth year**

- Design Project
- Research Project
- Systems Management and Integration
- Gas Dynamics and Propulsion
- Aerodynamics
- Flight Dynamics
- Aircraft Structures II
- Mechatronics II
- Engineering Professional Activity
- Vacation Work II
**Mining Engineering**

**Bachelor of Science in Engineering in Mining Engineering**

EFA09  
**Duration**  
4 years

**NSC Requirements**

**APS**  
42+  
**English Home Language OR First Additional Language**  
Level 5  
**Mathematics**  
Level 5  
**Physical Sciences**  
Level 5  
**Wait-listing**  
Students with English, Mathematics and Physics at Level 5 will be wait-listed, subject to place availability. Generally, applicants who achieve 70% in English, Maths and Physical Science stand a greater chance of being accepted.  
**International Qualifications** on page 29  
**Closing Date:** 30 September

**Programme Description**

*Plan, organise, and manage safe and efficient ways to extract raw materials from the earth.*

Mining engineers play a key role in the planning, exploitation, and excavation of mineral resources.

In the first two years, you will learn the skills, technology, and basic sciences common to all areas of engineering, including courses in civil, electrical, and mechanical engineering, geology and surveying. In the third and fourth years, you will study mining engineering subjects, including courses in technical valuation, ventilation, environmental engineering, mine transportation, and rock mechanics. In the final stage of the undergraduate programme, you’ll complete a mine design exercise in which you’ll apply your knowledge to designing a mine and assessing its economic feasibility and profit potential.

The programme will provide you with the engineering expertise you’ll need as a mining engineer or mine manager.

**Curriculum**

**First year**

- Engineering Chemistry
- Introduction to the Engineering Profession
- Engineering Analysis and Design IA and IB
- Engineering Mathematics IA and IB
- Engineering Physics IA and IB
- Applied Mechanics for Engineering
- Elective from Faculty of Humanities

**Second year**

- Mathematics II
- Applied Mathematics IIA
- Engineering Services for Mining
- Introduction to Underground and Surface Mining Methods
- Geology IA and IB
- Computer Applications in Mining
- Explosives Engineering
- Mechanical Excavation of Rock
- Digital Technologies and Mine Data Analytics
- Computer Programming for Mining Engineering Surveying
- Computer Programming Bootcamp
- Practical Workshop Training (Mining)

**Third year**

- Ore Dressing and Extractive Metallurgy
- Ore Body Modelling
- Mine Transportation, Automation and Robotics
- Mineral Resources Evaluation
- Computerised Mine Design
- Rock Mechanics
- Mine Ventilation and Climate Control
- Water, Energy and the Environment
- Mine Surveying and Geospatial Techniques
- Underground Mining Systems
- Surface Mining Systems

**Fourth year**

- Mine Management Principles
- Financial Valuation
- Mine Design
- Project Report
- Rock Engineering
- Mining Optimisation Techniques and Systems Engineering
- Health, Safety and Mining Law
- Mine Technical Visits
- Vacation Work I
- Vacation Work II
Each of the Built Environment degrees deals with a different aspect of our physical environment. Wits Built Environment qualifications address the social, spatial, cultural, and infrastructural needs of a transforming South Africa.

The delivery of affordable housing, the development of rural and urban environments, and solving other social and physical challenges form the basis of the degrees offered.

Working in the built environment requires a keen environmental and social awareness, as well as mathematical, analytical, and organisational ability.

When designing a building, architects need to consider many factors. These include the building’s intended purpose; how to place the building in harmony with its surroundings; site restrictions; and creative expression.

**Urban and regional planners** help to shape better places for people to live, work, and relax. Good planning considers population changes, community life, economic development, environmental questions, and design.

**The Property Studies** specialist requires a combination of legal, financial, and engineering skills to implement property solutions in line with corporate or government strategy.

As such, s/he must be up-to-date with the latest thinking in property investment and development.

**Construction managers** are experts in effective and efficient construction and property development. As such, they oversee projects that include planning the layout of sites, overseeing contractors, and ensuring that building regulations are adhered to.

**Quantity surveyors** are the financial specialists of the building industry. They contribute their skills and knowledge of costs and revenues to the planning of all building and engineering projects to ensure they are cost-effective.

Built Environment programmes provide an entry qualification into professional degrees, such as:

- Bachelor of Science in Urban and Regional Planning into BSc(URP) (Honours) in Urban and Regional Planning. The BSc(URP) Honours programme is accredited by the South African Council of Planners (SACPLAN).
- Bachelor of Science in Construction Studies into Honours in Quantity Surveying and Construction Management. The BSc(Hons) (Construction Management) and the BSc(Hons) (Quantity Surveying) are both internationally accredited.
- Bachelor of Science in Property Studies. Provisional conditional accreditation status by the South African Council for Property Valuers Profession (SACPVP).

**School of Architecture and Planning**

The School of Architecture and Planning provides an excellent learning environment towards accredited professional degrees in:

- Architecture
- Planning
- Postgraduate qualifications in related fields such as housing, urban design, sustainable and energy efficient cities, and wider urban studies.

Many of our graduates have become esteemed professionals and leading academics at universities across the globe.

**School of Construction Economics and Management**

The School of Construction Economics and Management comprises a vibrant community of approximately 700 students and 32 academic and administrative staff. We strive to attract the best students, who will contribute to the development of the national economy and the real estate and construction industry.

The School currently produces South Africa’s highest number of graduates in the field of construction economics and management.
Architectural Studies

Bachelor of Architectural Studies
FBA00
Duration
3 years
----------------------------------------------

NSC Requirements
APS
34+
English Home Language OR First Additional Language
Level 4
Mathematics
Level 4
Wait-listing
Acceptance depends on departmental selection. Applicants must complete a written and graphic exercise, and may be required to attend an interview. Applicants with a Wits APS of 29-33 may be accepted on the basis of exceptional scores, following an interview.
The BAS selection process is conducted by a panel of senior academics from the School of Architecture and Planning, which is monitored by the Assistant Dean. Selection is based predominantly on performance in the selection exercise, interview, and academics.
Demographic balance is taken into consideration where a choice needs to be made between applicants scoring within the same range.
International Qualifications on page 29
Closing Date: 30 June
----------------------------------------------

Careers
• Architect
• Architectural Technologist
• Draughtsperson
• Landscape Designer
• Interior Designer
• Lecturer
• Researcher
• Urban Planner/studies

Programme Description
Enhance human lives and experiences through space and structure design.

Architects design buildings and spaces that enhance human lives and experiences, and leave culturally and socially rich environments for future generations.
The Bachelor of Architecture Studies (BAS) curriculum extends over three years. Once you have completed the BAS programme, you will be required to work in an architectural practice for one year. You can then apply for the one-year, full-time BAS(Hons) qualification, and then the one-year, full-time MArch (Professional) qualification. If you meet the minimum BAS qualification requirements, you will be granted automatic admission to the BAS(Hons) programme, while remaining places are subject to additional selection criteria.
With a BAS qualification, you can register with the South African Council for the Architectural Professions as an architectural technologist. With a Master of Architecture (Professional) qualification, you can register as a candidate professional architect. After two years working as a registered candidate professional architect, you may qualify to register as an architect.
Wits architecture degrees are accredited by the South African Council of Architects and validated by the Commonwealth Association of Architects.

Curriculum
First year
Architectural Design and Theory I
Theory and Practice of Construction I
Histories and Theories of Architecture I
Architectural Representation I
Introduction to Structures
Applied Mathematics
Second year
Architectural Design and Theory II
Theory and Practice of Construction II
Architectural Representation II
Histories and Theories of Architecture
Civil Engineering Theory I
Third year
Architectural Design and Theory III
Theory and Practice of Construction III
Histories and Theories of Architecture III
Civil Engineering Theory II
Small Office Practice
Urban and Regional Planning

Bachelor of Science in Urban and Regional Planning
FBA05
Duration 3 years

NSC Requirements
APS 36+
English Home Language OR First Additional Language Level 5
Mathematics Level 5
Wait-listing
Students with English and Mathematics at Level 5 will be wait-listed, subject to place availability.

International Qualifications on page 29
Closing Date: 30 September

Careers
• Built Environment Analyst
• Consulting
• Damage Assessor
• Development and Corporate Real Estate
• Local, Provincial or National Government Planner
• Policy Analyst
• Property Management

Programme Description
Sustain the environment and develop economic and social wellbeing.

The Bachelor of Science Urban and Regional Planning BSc(URP) programme, offered by the School of Architecture and Planning, is concerned with sustaining the environment and developing economic and social wellbeing. In a context of increased technological change, rapid urbanisation, social transformation, and a changing natural environment, planning is about efficient and effective space management and creating places with meaning and quality.

The programme covers a range of fields, including geography, economics, sociology, and mathematics.

Core planning subjects range from the design of urban spaces and principles of place-making in a culturally diverse context, to policies for the planning and management of entire spatial regions. The classes involve mostly small group teaching, and expose you to real-life issues during practical field trips.

Planners often work in local, provincial, or national government, as well as in large companies with property portfolios, like insurance firms, and in communities, NGOs, and independent consultancies.

If you achieve the minimum requirements at the end of the three-year BSc(URP) programme, you may register for the professional BSc(URP) Honours programme, which enables you to register with the South African Council of Planners (SACPLAN) after you have gained necessary practical experience.

Curriculum
First year
Mathematical Technique for Planners
Settlements through History
Introduction to Environmental Interpretation
Introduction to Settlement Form and Design

Geography for Planners
Identity and Society I

Second year
Two and three Dimensional Computer Aided Design
GIS Planning
Housing Services
Infrastructure and Transport
Introduction to Land Management
Contemporary Design and Environmental Issues in South Africa Histories, Theories and Futures of Planning
Introduction to Environmental Planning
Introduction to Civil Engineering Infrastructure
Economic Concepts IA and IB

Third year
Quantitative Methods for Planners
Comparative African Cities
Integrated Development Planning
Regional Planning and Local Economic Development
Development Policy and Processes in South Africa
Applications in Graphic and Spatial Communication in Planning
Urban Economics

AND, one of the following specialisations in Urban Environmental Design or Housing:
• Comparative Approaches to Urban Design
• Spatial and Design Principles
• Housing Theory, Law and Policy

AND, one of the following specialisations in Urban Politics and Governance:
• Politics, Governance and the City
• Liberty, Justice and the Politics of Difference
Construction Studies

Bachelor of Science in Construction Studies
FBA04
Duration
3 years

NSC Requirements
APS
36+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Wait-listing
Students with English and Mathematics at Level 5 will be wait-listed, subject to place availability.
International Qualifications on page 29
Closing Date: 30 September

Careers
• Careers within Local Authorities and Government
• Commercial Trading as a Materials or Equipment Supplier
• Construction Management
• Project Management
• Quantity Surveying Practice
• Subcontractor in the Construction Industry

Programme Description
Plan, organise, and control construction projects.
The School of Construction Economics and Management offers professionally recognised qualifications in construction management, property studies, and quantity surveying. The three-year Bachelor of Science (BSc) in Construction Studies forms the foundation of these professional fields and gives you insights into how they interact. This will help you decide which professional field to pursue at Honours level.

Construction managers plan, organise, and control all aspects of large and complex construction projects. They have highly developed managerial skills and advanced technical knowledge of construction processes. They work in construction companies, insurance organisations, manufacturing organisations, and government departments, as property developers and project management consultants.

Curriculum
First year
• Introductory Statistics for Construction
• Construction Drawings
• Construction Materials and Environment
• Construction Technology I
• Communication Skills
• Quantities and Specifications I
• Commercial Law I
• Mathematics
• Physics
• Practical Experience I
Second year
• Building Science I
• Construction Technology II
• Quantities and Specifications II
• Site Management
• Accounting Principles in Construction
• Civil Engineering Theory I
• Economics IA - Microeconomics
• Economics IB - Macroeconomics
• Engineering Surveying
• Practical Experience II
Third year
• Professional and Research Skills
• Quantities and Specifications III
• Construction Technology III
• Estimating and Analysis of Prices
• Management Principles in Construction
• Building Science II
• Introduction to Construction Management
• Property Studies
• Civil Engineering II
• Business Enterprise Law
• Practical Experience III
Property Studies

Bachelor of Science in Property Studies
FF004
Duration
4 years

NSC Requirements
APS
36+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Wait-listing
Students with English and Mathematics at Level 5 will be wait-listed, subject to place availability.

International Qualifications on page 29
Closing Date: 30 September

Careers
• Banking, Investment and Finance
• Built Environment Analyst
• Consulting
• Damage Assessor
• Development and Corporate Real Estate
• Policy Analyst
• Property Management
• Property Valuation

Programme Description
Provide spaces that sufficiently meet organisational requirements.
Property is a high-demand finite resource that supports economic activity and influences the cost of goods and services. It forms the major asset value in corporate balance sheets, with most corporate debt secured against it. The challenge for the property practitioner is to provide spaces that efficiently meet organisational requirements. This requires a combination of legal, financial, and engineering skills.

The four-year Bachelor of Science (BSc) in Property Studies programme provides comprehensive training in most aspects of the property business, including finance, investment, development, and valuation. You can also specialise in corporate real estate and facilities management.

You will get a strong understanding of the fundamentals, including introduction to property, business and property, applications of mathematics, statistics, law, and planning. You will also receive training in finance, market analysis, investment finance, and property valuation, as well as professional skills training, including oral and written communication, the ability to work in teams, financial statement analysis, valuation, and financial modelling. In the fourth year, you will get additional training in entrepreneurship and leadership.

This gives you the practical experience you need to start working in finance, property asset management, letting and leasing, banking, property development, and valuations, in the public and private sectors.

Curriculum
First year
Planning for Property Developers
Communication Skills

Real Estate Principles
Economics IA - Microeconomics
Economics IB - Macroeconomics
Commercial Law
Mathematics for Property Studies
Business Statistics

Second year
Construction Technology
Accounting Principles for Construction
Econometrics for Property Studies
Real Estate Market Analysis
Real Estate Law
Urban Economics
Real Estate Corporate Finance
Building Technology I

Third year
Building Science I
Construction Technology II
Real Estate Valuation
Professional and Research Skills
Real Estate Finance
Real Estate Management
Environmental Impact Assessment
Building Services
Building Technology II

Fourth year
Entrepreneurship and Innovation
Advanced Real Estate Evaluation
Management and Leadership in the Property Sector
Commercial Real Estate Investments
Corporate Real Estate
Real Estate Development
Facilities Management
Advanced Real Estate
Market Analysis
Research Report
Our research impacts directly on improving and saving lives of people every day.
Biokinetics

Bachelor of Health Sciences in the field of Biokinetics

MBA05
Duration
3 years

---------------------

NSC Requirements

English Home Language OR First Additional Language
Level 5

Life Sciences AND/OR Physical Science
Level 5

Mathematics
Level 5

The Faculty of Health Sciences uses a composite index score to guide applicant selection.
This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores
All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

International Qualifications on page 31
Closing Date: 30 June

---------------------

Careers

• Biokineticist
• Exercise and Healthcare Scientist/ Researcher
• Exercise Physiologist
• Sports Massage Therapist
• Sports Scientist

Programme Description

Apply scientifically based physical activity to prevent disease or assist in rehabilitation.

Biokinetics gives you the knowledge and skill you need to apply scientifically based physical activity, either to help prevent disease or assist in rehabilitation following the onset of disease.

Biokineticists offer specialised exercise rehabilitation for people with orthopaedic injuries, sports injuries, and chronic diseases.

This is an entry-Level degree with a strong scientific focus.
If you major in Physiology and Exercise Science, you can apply for the Bachelor of Health Sciences with Honours in Biokinetics programme. The BHSc(Hons) degree is offered through the Centre for Exercise Science and Sports Medicine. It allows you to pursue studies and professional training as a biokineticist.

Curriculum

First year
Introduction to Medical Sciences I
Chemistry
Physics I
Health Systems Sciences
System Dynamics for Health Sciences

Second year
Human Anatomy II
Exercise Science II
Physiology and Medical Biochemistry II

Third year
Physiology III
Exercise Science III
Biomedical Sciences

Programme Description

Study the cells, organs, and system functions of the human body.

Biomedical Sciences offers exciting opportunities within the biological sciences such as molecular medicine, physiology, applied anatomy and pharmacology.

In the first two years, students will cover the fundamental topics in biomedical science: Cell Biology, Human Anatomy and Physiology.

Honours degrees are available for many of the major subjects completed within the Bachelor of Health Sciences degree including Forensic Sciences, Human Genetics, Human Biology, Medical Cell Biology and Physiology, Anatomical Pathology, Chemical Pathology, Clinical Microbiology and Infectious Diseases.

Curriculum

First year
- Introduction to Medical Sciences I
- Chemistry I
- Physics I
- Health Systems Sciences
- System Dynamics for Health Sciences

Second year
- Human Anatomy II
- Molecular Medicine II
- Physiology and Medical Biochemistry II

Third year
- Two of the following courses:
  - Human Biology III
  - Medical Cell Biology III
  - Molecular Medicine III
  - Pharmacology III
  - Physiology III

NSC Requirements

English Home Language OR First Additional Language
Level 5

Life Sciences AND/OR Physical Science
Level 5

Mathematics
Level 5

The Faculty of Health Sciences uses a composite index score to guide applicant selection.

This includes:

1) Your matric academic results for five subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.

2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

International Qualifications on page 31

Closing Date: 30 June

Careers

- Biomedical Scientist
- Forensic Scientist
- Healthcare Scientist
- Medical Sales Representative
- Microbiologist
- Research Scientist
- Science Journalist/Writer

Bachelor of Health Sciences in the field of Biomedical Sciences

MBA05

Duration
3 years
Health Systems Sciences

Bachelor of Health Sciences in the field of Health Systems Sciences

MBA05

Duration
3 years

NSC Requirements

English Home Language OR First Additional Language
Level 5

Life Sciences AND/OR Physical Science
Level 5

Mathematics
Level 5

The Faculty of Health Sciences uses a composite index score to guide applicant selection.

This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

International Qualifications on page 31

Closing Date: 30 June

New and exciting career opportunities in:
- Epidemiology
- Health Systems Management
- Public Health

Programme Description

Study public health and the incidence, distribution, and control of diseases.

The Health Systems Sciences degree covers the factors and processes that contribute to disease outbreak and control. It includes a combined Anatomy and Physiology module to help you to understand the underlying principles of health and disease.

You will also gain a basic understanding of disease epidemiology, leading into courses dealing with public health, primary healthcare and health management, and health systems.

You will also gain biostatistics skills to help you to interpret data. These critical skills are in short supply in southern Africa.

Curriculum

First year
- Introduction to Medical Sciences I
- Chemistry I
- Physics I
- Health Systems Sciences
- System Dynamics for Health Sciences

Second year
- Applied Anatomy and Physiology II
- Health Systems Sciences II
- Public Health II

Third year
- Health Systems Sciences III
- Public Health III
Clinical Medical Practice

Bachelor of Clinical Medical Practice

MBA01
Duration
3 years

NSC Requirements

- English Home Language OR First Additional Language
  Level 4
- Life Sciences AND/OR Physical Science
  Level 4
- Mathematics
  Level 4
- Maths Literacy
  Level 7

The Faculty of Health Sciences uses a composite index score to guide applicant selection. This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Maths Literacy, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

International Qualifications on page 31

Closing Date: 30 June

Careers

Clinical Associates are mid-Level healthcare workers who have the necessary knowledge, attitudes and psychomotor skills to be able to under the supervision of a doctor assist health care team members to improve patient care especially in rural and disadvantaged communities.

Programme Description

Practise medicine, provide treatment, and improve patient care under a doctor’s supervision.

The Clinical Medical Practice programme aims to develop mid-level healthcare workers, called clinical associates. They have the knowledge, attitude, and psychomotor skills to assist doctors and healthcare teams in improving patient care, and especially in providing treatment in rural and disadvantaged communities. Clinical associates practice medicine in government hospitals and clinics, for NGOs providing care, and for the private healthcare sector, under the license of a medical practitioner. They are registered with the Health Professions Council of South Africa.

As a qualified clinical associate, you will:

- Perform patient consultations and physical examinations, including assessment and management of patients in casualty or emergency wards, for all common medical conditions.
- Perform routine procedures, under supervision, in hospital wards, emergency departments, outpatient departments, and clinics.

You will be taught mainly at district hospitals but also at other hospitals and at Wits Medical School. The three-year, full-time clinical associate programme aims to develop sound knowledge of the medical and clinical sciences, and facilitates understanding of medical conditions and management strategies. You need detailed knowledge of biomedical sciences in areas related to procedural performance.

Curriculum

First year
- Fundamentals of Medical and Clinical Science

Second year
- Fundamentals of Clinical Medical Practice

Third year
- Applied Clinical and Medical Practice
Dental Science

Bachelor of Dental Science
MFA05
Duration
5 years

NSC Requirements
English Home Language OR First Additional Language
Level 5
Life Sciences
Level 5
Mathematics
Level 5
Physical Science
Level 5

This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

All applicants to Bachelor of Dental Science and Bachelor of Oral Health Sciences must spend time observing specific procedures as performed by a Dentist/Dental Therapist/Oral Hygienist to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: www.wits.ac.za/undergraduate/apply-to-wits/under Additional Forms.

Applicants who fail to submit a certificate will not be considered for admission.

International Qualifications on page 31
Closing Date: 30 June
Career

Dentist in different locations, including in community, industrial, private practice and public service clinics.

Programme Description

Diagnose, treat, and prevent diseases of the teeth, mouth tissue, and supporting bones of the mouth.

Modern dentistry has moved beyond the scope of the ‘drilling and filling’ of the past.

Today, dentists manage diseases and abnormalities of the face, jaws, joints, and soft tissue lining of the mouth. They offer comprehensive care for the entire oral and facial system.

The Bachelor of Dental Science (BDS) is a five-year, full-time course. Years 1 to 3 focus on bioethics, health law, and dental sciences. Years 4 and 5 focus on understanding the medical, dental, social, and community context of dental clinical practice. You will be required to complete one year of community service after graduating. If you are registering for the BDS for the first time, you must register with the Health Professions Council of South Africa (HCPAs).

Curriculum

First year

Bioethics, Health Law and Human Rights I
Oral Microbiology I
Prosthodontics I

Public Oral Health I
Dental Materials for Dental Students I
Operative Dentistry I
Anatomy for Dental Students
Physiology and Medical Biochemistry I

Second year

Integrated Learning I
Prosthodontics II
Public Oral Health II
Bioethics, Health Law and Human Rights II
Dental Materials for Dental Students II
Dental Practice Management I
Maxillo-Facial and Oral Radiology I
Endodontics I
Operative Dentistry II
Pathology (Anatomical and Haematological)
Oral Biology for Dental Students
Medical Microbiology
Oral Microbiology II

Third year

Pharmacology
Maxillo-Facial and Oral Radiology II
Emergency Medicine
Public Oral Health III
Prosthodontics III
Introduction to Maxillo-Facial and Oral Surgery
Introduction to Periodontology
Integrated Learning II
Dental Materials for Dental Students III
Dental Practice Management II
Operative Dentistry III
Endodontics II
Paediatric Dentistry I
Dento-Facial Growth and Development

Essentials in Orthodontic Techniques and Diagnosis
Oral Pathology

Fourth year

General Medicine and Paediatrics for Dental Students
General Surgery
Integrated Learning III
Prosthodontics IV
Periodontology I
Maxillo-Facial and Oral Radiology III
Maxillo-Facial and Oral Surgery II
Public Oral Health IV
Bioethics, Health Law and Human Rights III
Oral Medicine I
Dental Practice Management III
Dental Materials for Dental Students IV
Comprehensive Patient Care
Operative Dentistry IV
Endodontics III
Paediatric Dentistry II
Clinical Orthodontics I

Fifth year

Anaesthetics
Integrated Learning IV
Prosthodontics V
Periodontology II
Maxillo-Facial and Oral Surgery III
Public Oral Health V
Oral Medicine II
Advanced Comprehensive Patient Care
Operative Dentistry V
Endodontics IV
Paediatric Dentistry III
Clinical Orthodontics II
Medicine and Surgery

Bachelor of Medicine and Bachelor of Surgery

MFA00

Duration 4-6 years

NSC Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Home Language OR First Additional Language</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Life Sciences AND/OR Physical Science</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

The Faculty of Health Sciences uses a composite index score to guide applicant selection. This includes:

1) Your matric academic results for five subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.

2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

Admission into MBBCh:

There are two entry points into the MBBCh:

- First year, for applicants currently in Grade 12, and
- Third year, for applicants who have completed a relevant degree (GEMP).

Programme Description

Surgeons, paediatricians, pathologists, radiologists, and family medicine practitioners start with an MBBCh.

An MBBCh degree opens doors to exciting and challenging careers. In addition, there is a critical need in South Africa’s under-served areas for doctors to provide quality preventative, diagnostic, and therapeutic services. The country offers modern facilities in both academic and private practice settings, with the opportunity to perform research at many levels.

Careers

Areas of Specialisation:

- Anaesthesiology
- Clinical Microbiology and Infectious Disease
- Community Health
- Family Medicine
- Forensic Medicine
- Internal Medicine
- Obstetrics and Gynaecology
- Ophthalmology
- Pathology
- Paediatrics
- Psychiatry
- Radiology
- Surgery

Curriculum

First year

- Introduction to Medical Sciences I
- Chemistry I
- Physics I
- Medical Thought and Practice I
- Sociological Foundations of Health
- Psychological Foundations of Health

Second year

- Human Anatomy
- Molecular Medicine
- Physiology and Medical Biochemistry I
- Medical Thought and Practice II

Third year

- Integrated Basic Medical and Human Sciences A

Fourth year

- Integrated Basic Medical and Human Sciences B

Fifth year

- Integrated Clinical Medicine A

Sixth year

- Integrated Clinical Medicine B
**Bachelor of Nursing**

**MF001**

**Duration**

4 years

**NSC Requirements**

**English Home Language OR First Additional Language**

Level 4

**Life Sciences AND/OR Physical Science**

Level 4

**Mathematics**

Level 4

The Faculty of Health Sciences uses a composite index score to guide applicant selection.

This includes:

1) Your matric academic results for five subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.

2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

**International Qualifications on page 31**

**Closing Date:** 30 June

**Careers**

- General nursing
- Child nursing
- Intensive care nursing
- Nursing education
- Nephrology nursing
- Oncology and palliative nursing
- Psychiatric nursing
- Research
- Trauma and emergency nursing
- Midwife

**Programme Description**

*Work with patients, families, communities, and healthcare teams to improve health and quality of life.*

**Nursing** combines compassion, knowledge, and sophisticated health technology to restore, maintain, and promote the health of individuals, groups, or communities. Nursing is both an art and a science: caring, compassionate relationships blended with the development and application of nursing knowledge, techniques and ethics.

As a Wits nursing student, you will study in a rigorous and vibrant multidisciplinary environment that will stimulate your intellectual inquiry and professional responsiveness. You will learn in small groups and engage in cooperative learning as you work through real-life health scenarios, deciding how to access information that produces the best results in managing health issues.

**Nurses practice in a range of settings, including hospitals, community clinics, industry, the military, private practices, homes, and in specialised areas such as hospice and rehabilitation and aged care facilities.**

Wits also offers opportunities for further study in nursing.

**Curriculum**

**First year**

Introduction to Medical Sciences

Chemistry I

Comprehensive Nursing I

Physics I

Introduction to Psychology I

Basic Principles of Group and Individual Psychology I

Human Behavioural Sciences I

**Second year**

Anatomy for Nursing Students II

Comprehensive Nursing II

Physiology and Medical Biochemistry I

**Third year**

Comprehensive Nursing III

Women’s Health I

Psycho-Social Health I

Pharmacology

Health Psychology

Research Design and Analysis

**Fourth year**

Comprehensive Nursing IV

Women’s Health II

Psycho-Social Health II

---

**Work with patients, families, communities, and healthcare teams to improve health and quality of life.**

**Nursing** combines compassion, knowledge, and sophisticated health technology to restore, maintain, and promote the health of individuals, groups, or communities. Nursing is both an art and a science: caring, compassionate relationships blended with the development and application of nursing knowledge, techniques and ethics.

As a Wits nursing student, you will study in a rigorous and vibrant multidisciplinary environment that will stimulate your intellectual inquiry and professional responsiveness. You will learn in small groups and engage in cooperative learning as you work through real-life health scenarios, deciding how to access information that produces the best results in managing health issues.

**Nurses practice in a range of settings, including hospitals, community clinics, industry, the military, private practices, homes, and in specialised areas such as hospice and rehabilitation and aged care facilities.**

Wits also offers opportunities for further study in nursing.

**Curriculum**

**First year**

Introduction to Medical Sciences

Chemistry I

Comprehensive Nursing I

Physics I

Introduction to Psychology I

Basic Principles of Group and Individual Psychology I

Human Behavioural Sciences I

**Second year**

Anatomy for Nursing Students II

Comprehensive Nursing II

Physiology and Medical Biochemistry I

**Third year**

Comprehensive Nursing III

Women’s Health I

Psycho-Social Health I

Pharmacology

Health Psychology

Research Design and Analysis

**Fourth year**

Comprehensive Nursing IV

Women’s Health II

Psycho-Social Health II

---
## Occupational Therapy

### Bachelor of Science in Occupational Therapy

- **MFA03**
- **Duration**
  - 4 years

### NSC Requirements

**English Home Language OR First Additional Language**
- Level 4

**Life Sciences AND/OR Physical Science**
- Level 4

**Mathematics**
- Level 4

The Faculty of Health Sciences uses a composite index score to guide applicant selection. This includes:

1. Your matric academic results for 5 subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2. National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

All applicants to BSc(Occupational Therapy) must spend time observing a professional occupational therapist and complete a certificate of attendance (minimum: 16 hours). You can download a certificate of attendance form from the Wits website, under Additional Forms: [www.wits.ac.za/undergraduate/apply-to-wits](http://www.wits.ac.za/undergraduate/apply-to-wits)

Without this certificate, you will not be considered for admission to the programme.

### International Qualifications

- [www.wits.ac.za/undergraduate/international](http://www.wits.ac.za/undergraduate/international)

### Closing Date

- 30 June

### Curriculum

#### First year
- Introduction to Medical Sciences
- Chemistry I
- Fundamentals of Occupational Science and Occupational Therapy I
- Physics I
- Introduction to Psychology I
- Basic Principles of Group and Individual Psychology I
- Human Behavioural Sciences I

#### Second year
- Anatomy for Physiotherapy and Occupational Therapy Students II
- Fundamentals of Occupational Science and Occupational Therapy II
- Physiology and Medical Biochemistry I

#### Third year
- Occupational Therapy III applied to Physical Conditions
- Occupational Therapy III applied to Psychiatric Conditions
- Medicine and Surgery for Occupational Therapy
- Science of Occupation II
- Psychiatry in Relation to Occupational Therapy
- Health Psychology
- Research Design and Analysis

#### Fourth year
- Science of Occupation III
- Occupational Therapy as applied to Psychiatric Conditions
- Occupational Therapy as applied to Physical Conditions

### Programme Description

**Help patients who are temporarily or permanently impaired by illness, accident, disability, environmental limitations, or developmental delay, to increase their independent function.**

**Occupational Therapy** is the therapeutic use of self-care, work, education, play, leisure, and social activities to increase independent function, enhance development, promote health and wellbeing, and prevent disability. It is indicated when people lose their ability to carry out their everyday activities, due to temporary or permanent illness, disability, environmental limitations, and developmental delay.

**What do occupational therapists do?**

Occupational therapists assess a person’s ability to engage in daily activities. They then engage the person in meaningful and culturally appropriate activities to maximise their functioning and wellbeing. This engagement empowers the person to be as independent as possible, and enhances dignity and quality of life at work, school, at home, and during leisure. Intervention may include adapting the person’s environment to help them to cope.

---

### Careers

- Aged Care Facilities
- Community Health Centres
- Home Care Services
- Hospitals and Rehabilitation Units
- Independent Living and Respite Centres
- Private Practice
- Psychiatric Clinics
- Schools and Education Facilities
- Vocational Rehabilitation Centres

---

**Occupational Therapy** is practised in a wide range of public, private, and voluntary settings, like the person’s home, schools, workplaces, health centres, supported accommodation, housing for seniors, rehabilitation centres, hospitals, and forensic services.

---

**Careers**

- Aged Care Facilities
- Community Health Centres
- Home Care Services
- Hospitals and Rehabilitation Units
- Independent Living and Respite Centres
- Private Practice
- Psychiatric Clinics
- Schools and Education Facilities
- Vocational Rehabilitation Centres

---

**Programme Description**

**Help patients who are temporarily or permanently impaired by illness, accident, disability, environmental limitations, or developmental delay, to increase their independent function.**

**Occupational Therapy** is the therapeutic use of self-care, work, education, play, leisure, and social activities to increase independent function, enhance development, promote health and wellbeing, and prevent disability. It is indicated when people lose their ability to carry out their everyday activities, due to temporary or permanent illness, disability, environmental limitations, and developmental delay.

**What do occupational therapists do?**

Occupational therapists assess a person’s ability to engage in daily activities. They then engage the person in meaningful and culturally appropriate activities to maximise their functioning and wellbeing. This engagement empowers the person to be as independent as possible, and enhances dignity and quality of life at work, school, at home, and during leisure. Intervention may include adapting the person’s environment to help them to cope.
Bachelor of Oral Health Sciences

Duration
3 years

NSC Requirements

English Home Language OR First Additional Language
Level 4

Life Sciences AND/OR Physical Science
Level 4

Mathematics
Level 4

Maths Literacy
Level 7

The Faculty of Health Sciences uses a composite index score to guide applicant selection.

This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Maths Literacy, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

All applicants to Bachelor of Dental Science and Bachelor of Oral Health Sciences must spend time observing specific procedures as performed by a Dentist/Dental Therapist/Oral Hygienist to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: www.wits.ac.za/undergraduate/apply-to-wits/ under Additional Forms.

Applicants who fail to submit a certificate will not be considered for admission.

International Qualifications on page 31

Closing Date: 30 June

Careers

Oral Hygienists work in community, industrial, private practice and public service clinics.

Programme Description

Help patients to safeguard their oral hygiene.

Oral hygienists focus on the prevention of oral disease and the maintenance of good oral hygiene.

The Oral Health Sciences programme aims to address and improve the oral health needs of patients and communities. You will learn how to deliver appropriate oral hygiene services in a wide range of settings, like schools, private practices, academia, research, community health centres, sales and marketing, and military health.

Oral hygienists work in the government sector, universities, private surgeries, private companies, and research institutions.

Wits is one of few oral health training institutes in South Africa and has a reputation for producing world-class dental professionals. You can also pursue postgraduate studies once you’ve completed the programme.

Curriculum

First year
Anatomy

Oral Biology and Physiology for Dental Auxiliaries

Fundamentals of Clinical Oral Health

Behavioural and Social Sciences for Dental Auxiliaries

Oral Microbiology for Dental Auxiliaries

Oral Pathology for Dental Auxiliaries

Second year

Integrated Clinical Dentistry for Oral Hygienists

Bioethics for Dental Auxiliaries I

Community Dentistry for Dental Auxiliaries

Fundamentals of Clinical Oral Health I

Third year

Applied Research and Dental Practice Management for Dental Auxiliaries

Bioethics for Dental Auxiliaries II

Community Dentistry for Dental Auxiliaries II

Fundamentals of Clinical Oral Health II
Pharmacists screen people for early signs of disease, using advanced methods to provide sound pharmaceutical care.
Bachelor of Pharmacy (BPharm)
MFA04
Duration 4 years
----------------------------
NSC Requirements
English Home OR
First Additional Language Level 5
Life Sciences AND/OR
Physical Science Level 5
Mathematics Level 5
The Faculty of Health Sciences uses a composite index score to guide applicant selection.
This includes:
1) Your matric academic results for five subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores
All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.
International Qualifications on page 31
Closing Date: 30 June
----------------------------
Careers
The Pharmacy degree provides training in a wide range of interrelated disciplines and therefore offers a variety of career opportunities to graduates that include:
• Academia and Research
• Community Pharmacy
• Hospital Pharmacy
• Industrial Pharmacy
• Managed Healthcare
Other areas in which Pharmacists are involved:
• Adverse Drug Reaction Monitoring
• Clinical Trials
• Contract Research

Pharmacy Students (STEPPS) and in our Clinical Pharmacy programme, which uses state-of-the-art screening equipment.

Pharmaceutical research pharmacists research and develop new, safer, more effective medicines. As a Wits Pharmacy graduate, you will be exposed to cutting-edge global research and distinctive research-led pharmacy education from our Wits Advanced Drug Delivery Platform (WADDP) unit, as well as aseptic concepts in Pharmaceutical Microbiology and Natural Products development.

Curriculum
First year
Introduction to Medical Sciences I
Chemistry I
Physics I
Pharmaceutical Practice
Health Systems Sciences I
Second year
Anatomy for Pharmacy Students
Physiology and Medical Biochemistry I
Pharmaceutical Chemistry I
Pharmaceutics I
Pharmacy Practice I
Third year
Pathology
Medical Microbiology
Pharmaceutical Chemistry II
Clinical
Pharmacy II
Pharmacy Practice II
Pharmaceutics II
Pharmacology I
Fourth year
Pharmaceutics III
Pharmaceutical Chemistry III
Clinical Undergraduate Research Project
Clinical
Pharmacy III
Pharmacy Practice III
Pharmacology II

Pharmacy

Programme Description
Be at the forefront of game-changing medical innovations.

Pharmacists are experts on the action and use of drugs, including their chemistry, formulation into medicines, and how they are used to manage diseases. The profession is dynamic; continuously expanding in new directions and offering interdisciplinary professional education and work-based learning opportunities.

Over time, the paradigm has shifted from traditional compounding and dispensing of medicines to a more patient-orientated, research-led professional advisory and primary healthcare role.

Pharmacists screen people for early signs of disease, using advanced methods to provide sound pharmaceutical care. They are also specialists in the formulation, manufacture, storage, dispensing, counselling, and controlling of medicines. They provide advice on medications used to treat illnesses and ensure optimal drug therapy.

Clinical pharmacy involves screening patients for chronic diseases and implementing appropriate care and advice to improve patient outcomes. You will learn how to screen for chronic diseases through our Screening and Testing Programme for
Physiotherapy

Bachelor of Science in Physiotherapy

MFA02
Duration
4 years

NSC Requirements

English Home OR
First Additional Language
Level 5
Life Sciences AND/OR
Physical Science
Level 5
Mathematics
Level 5

The Faculty of Health Sciences uses a composite index score to guide applicant selection.
This includes:
1) Your matric academic results for 5 subjects: English, Mathematics, Physical Science/Life Sciences, and the best two other subjects. We consider the percentage achieved, not the symbol.
2) National Benchmark Test (NBT) scores

All applicants – excluding those who are applying to the Graduate Entry Medical Programme (GEMP) only – must write the NBT. Refer to Page 102 for more information on the NBT.

All applicants to Bachelor of Dental Science and Bachelor of Oral Health Sciences must spend time observing specific procedures as performed by a Dentist/Dental Therapist/Oral Hygienist to gain insight into the profession. Applicants must complete a certificate of attendance (minimum 16 hours). Only observation hours completed between 1 July 2018 and 31 July 2019 will be accepted. Please download the form from: www.wits.ac.za/undergraduate/apply-to-wits/ under Additional Forms.

Applicants who fail to submit a certificate will not be considered for admission.

www.wits.ac.za/undergraduate/apply-to-wits/

Applicants who fail to submit this certificate will not be considered for admission to the programme.

International Qualifications on page 31
Closing Date: 30 June

Careers

The field of physiotherapy is vast, encompassing six different areas, namely:
- Cardiopulmonary
- Community Health
- Neuromusculo-skeletal
- Neurology
- Orthopaedic
- Paediatrics
- Sport Physiotherapy (specialised branch of physiotherapy which deals with injuries and health of the sports person)

Programme Description

Use health promotion, treatment, rehabilitation, and exercise to prevent disability and restore patients' normal movement and physical function.

Physiotherapists aim to improve patients' quality of life through skilled evaluation and therapy that reduces their pain and restores movement and physical function. This often restores their ability to perform normal activities. Physiotherapy also aims to maintain patients' mobility, muscle strength, and exercise endurance.

With this degree, you can work as part of a multidisciplinary team in hospitals, clinics, community health centres, private practices, schools for children with disabilities, centres for people living with disabilities, and sports centres.

Curriculum

First year
- Introduction to Medical Sciences I
- Chemistry I
- Introduction to Physiotherapy I
- Basic Principles of Group and Individual Psychology I
- Human Behavioural Sciences I

Second year
- Anatomy for Physiotherapy and Occupational Therapy Students
- Physiology and Medical Biochemistry

Third year
- Pharmacology
- Physiotherapy II
- Rehabilitation I
- Clinical Physiotherapy I
- General Medicine and Surgery
- Research Methodology Part I

Fourth year
- Management for Therapists
- Physiotherapy III
- Rehabilitation II
- Clinical Physiotherapy II
- Research Methodology Part II
Use health promotion, treatment, rehabilitation, and exercise to prevent disability and restore patients’ normal movement and physical function.
Health Sciences Admission Requirements

National Benchmark Tests (NBT)

All Faculty of Health Sciences applicants (except those applying for admission into the Graduate Entry Medical Programme, or GEMP) must write the National Benchmark Tests (NBT) before being considered for admission.

There are two tests: The Academic and Quantitative Literacy Test, and the Mathematics Test. Your test results are used in addition to your Grade 11 results (for early decision-making purposes) and your Grade 12 results (for final decision-making purposes), as well as other admission criteria, to guide applicant selection.

Please note:
• If you score in the ‘Basic’ range (please refer to the Benchmark Performance Levels table below), you are unlikely to be considered for a place in the Health Sciences degrees. For more information on the performance levels, please refer to the NBT website: http://www.nbt.ac.za
• These are standard tests for all medical schools in South Africa. You only have to write the tests once, regardless of the number of schools you apply to.

Rules for the NBT

You must register on the NBT website, or via mobile phone, to write the tests. Registration closes about three weeks before each test date. You can register for the NBT before you submit your application to Wits. DO NOT wait for an official notification from Wits to register and write the tests, because you may miss the end of July deadline.
• The test fee can be paid once you have registered to write the test.
• The tests must be written by 10 August 2019. Results received for tests written after this date WILL NOT be considered. You are encouraged to write the tests as early as possible.
• For a comprehensive list of test dates, registration dates, and available venues, please refer to the NBT website.
• Both tests must be written in one session.
• ONLY the first attempt results will be considered for selection purposes, so, we advise against writing the tests more than once in a year.
• NBT results are valid for three years.

Application Closing Date: 30 June

Benchmark Performance Levels

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proficient</td>
<td>64</td>
<td>100</td>
</tr>
<tr>
<td>Intermediate</td>
<td>38</td>
<td>63</td>
</tr>
<tr>
<td>Basic</td>
<td>0</td>
<td>37</td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proficient</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>Intermediate</td>
<td>38</td>
<td>69</td>
</tr>
<tr>
<td>Basic</td>
<td>35</td>
<td>67</td>
</tr>
<tr>
<td><strong>Maths</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proficient</td>
<td>68</td>
<td>100</td>
</tr>
<tr>
<td>Intermediate</td>
<td>35</td>
<td>67</td>
</tr>
<tr>
<td>Basic</td>
<td>0</td>
<td>34</td>
</tr>
</tbody>
</table>

Wits Additional Placement Test (WAPT) for GEMP Applicants

To calculate a composite index, all contributing components must be finalised (into a tertiary aggregate). You will be notified of your eligibility to write the WAPT, scheduled for September, as and when documentation for applications is complete. This includes academic transcripts and all other pertinent documents.

If documents are not submitted by 15 July, we will not consider your application. This is why you need to start preparing well in advance of notification. You can find all information about the content and nature of each component of the tests on the GEMP website: www.wits.ac.za/health/gemp

Wits University takes seriously the risks that HIV/AIDS poses to our students. Before applying for admission, please be aware that you may be exposed to life-threatening diseases, including HIV/AIDS. While the main route of HIV infection is through unprotected sex, you should be aware that, in the occupational setting, there is an additional risk to students and healthcare professionals. The risk, however, is low (0.36% following a needle stick injury). However, to minimise the risk of occupational acquisition of HIV, you’ll receive instruction in “Universal Precautions”. When appropriate, instruction on post-exposure prophylaxis will also be provided. If you are HIV+, you may have a low immune system, which makes you vulnerable to certain infectious diseases that you may encounter in your daily activities in hospitals.
Health Sciences Compliance

A health sciences practitioner without the necessary skills and expertise may endanger the patients he or she treats, and infringe on the patient's fundamental human rights. We have identified the minimum training requirements to avoid this, and you will have to adhere to a standard of ethical practice that supports an open and trusting relationship between the patient and the health professional.

Certain aspects of clinical practice, like history-taking, patient examination, and basic patient care issues must be completed without influence from the individual’s belief system. The Faculty of Health Sciences will not condone any personal belief system that prevents, interferes with, or is contrary to these minimum training requirements.

In practice, a number of situations have been noted, in which students' religious beliefs may conflict with programme requirements. These include but are not limited to:

• Travelling on certain days, or travelling unaccompanied on certain journeys;
• Attending a certain venue for training purposes;
• Attending lectures at certain times of day;
• Examining patients of both genders;
• Acquiring appropriate clinical skills relating to Choice on Termination of Pregnancy (CTOP) / sterilisation procedures;
• Complying with certain clothing requirements, e.g. not wearing veils, which might impede or detract from patient care or appropriate training;
• Performing certain skills (e.g. scrubbing) in the available facilities;
• Being assessed on religious holidays that are not on the University’s official list of approved holidays (published and placed on all notice boards at the start of each academic year); and
• Being on intake duty on certain days or nights.

Such objections and failure to comply with programme requirements would interfere with the training offered by the Faculty. The student would therefore fail to meet the requirements for a particular course, as stipulated by a particular school or department. The final decision regarding assessment and whether requirements have been met remains with the school or department concerned.

The following situations are known to conflict with requirements:

• Wearing veils in any department / discipline requiring physical or personal interaction with patients, e.g. Psychiatry, Surgery, Emergency Medicine, etc., or where a specific dress code is required, e.g. Physiotherapy, Nursing, etc.
• Wearing veils in the School of Oral Health Sciences – in this case, students wearing veils will be required to identify themselves at the start of every clinical session and to conform to infection-control clothing protocols.
• Wearing veils in tests or exams – in this case, students wearing veils will need to identify themselves beforehand.

The process is guided by the following principles:

• Meeting the minimum requirements for training, as set by the Faculty
• A culture of religious tolerance.

This information has been drawn up and approved by all of the Faculty’s Undergraduate Committees and the Teaching and Learning Committee. If you have any questions or concerns, please contact the Office of the Assistant Dean: Teaching and Learning and Undergraduate Affairs.

Statutory bodies

• All students registering for the first time for the MBBCh, BSc (Physiotherapy), BDS, BOHSc, and BCMP must register with the Health Professions Council of South Africa (HPCSA).
• All new BNurs students must register with the South African Nursing Council.
• All new Pharmacy students must register with the South African Pharmacy Council.
Faculty of Humanities

Bachelor of Arts ....................... 105
Majors and Courses ................. 106
Mix and Match Courses to Suit your Career ............... 109
BA(Law) .................................. 110
Programmes in the Arts
The Wits School of Arts ............. 111
- Digital Arts ......................... 112
- (Dramatic Art) Theatre and Performance ............. 113
- Film and Television .............. 114
- Fine Arts ......................... 115
- Music ............................... 116
Programmes in Education
The Wits School of Education .... 119
PGCE ................................. 119
BEd Degree ............................. 119
- Foundation Phase Teaching
  (Grades R-3) ......................... 120
- Intermediate Phase Teaching
  (Grades 4-7) ......................... 121
- Senior Phase and Further Education
  and Training Teaching
  (Grades 8-12) ......................... 122
Programmes in Human and Community Development
School of Human and Community Development ........ 124
Audiology ................................ 125
Speech-Language Pathology ....... 126
Social Work ............................. 127
Bachelor of Arts

The BA programme allows you to choose which courses you want to study.

Bachelor of Arts (General)
ABA00
Duration
3 years

NSC Requirements
APS
34+

English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with entry requirements of at least 30-33 APS points are wait-listed, subject to place availability.

International Qualifications on page 33
Closing Date: 30 September

Careers
Refer to Mix and courses to suit your career on page 109.

Programme Description
The Bachelor of Arts (BA) three-year full-time programme includes two majors and 22 courses (refer to pages 106-108 for more information on courses). You will study your major in first, second, and third years, with each year adding different and more complex aspects of the subject, so you become specialised in your chosen field.

Courses run either for half an academic year or for one semester. When choosing your majors and courses, keep your career goals and interests in mind, to ensure that you’re fully equipped for a specific profession.
Majors and courses

African Languages/Language Acquisition
These courses will familiarise you with basic speaking, reading, writing, and listening, either in isiZulu or Sesotho. You will study texts from various literary genres to learn grammatical structures and socio-cultural context.

African Languages and Linguistics
These courses examine the history of the languages spoken in South Africa today. You will also learn about the linguistic aspects of these languages and compare their morphophonological structures, especially those of the Sotho and Nguni languages. In addition, you will be introduced to Computational Linguistics, which focuses on the development of technological tools for resource-scarce languages.

African Languages and Literature
These courses comprise language acquisition components for non-mother tongue speakers, as well as linguistic and literature components for mother tongue speakers and students of African language media. You will acquire receptive and language reproduction skills, as well as analytical and interpretive skills.

African Languages Literature
These courses look at the diverse range of Nguni and Sotho literary material in southern Africa. They cover major works of poetry, prose, drama, and journalistic articles, including translated works. Emphasis is placed on the history and emergence of the different types of literary genres.

African Literature
These courses study oral and written literature that is written in or translated from English, directly concerned with the African experience using fiction, poetry, popular culture, and drama from the African continent. All non-English study texts are also available in English.

Anthropology
Anthropology is the study of humankind in social and cultural contexts. It documents and examines the diversity of human cultures, social relations, environments, and products.

Archeology
Archaeology is the study of human history through material remains, such as stone tools, food residue, rock art, pottery, and settlement plans. First-year students study the biological evolution of man, man’s past as a hunter-gatherer, and the origins of farming and urbanisation.

Arts Management
This course covers arts management, marketing, sponsorship and business studies. In the course of one semester, students will be required to successfully complete practical hours in a professional management role within an arts organisation, (thirty hours in third year or forty hours in fourth year).

Digital Arts Theory
Digital Arts Theory introduces you to the historic, conceptual, and critical frameworks of a range of digital art practices, like interactive and networked art, and game studies. It investigates digital culture from its origins to present-day practice, around the world and particularly in Africa.

Drama for Life
Drama for Life enhances dialogue for social transformation and healing, via arts-based research, teaching and learning, and community engagement.

Bachelor of Arts students who are interested in arts therapies, arts education, arts activism, and all arts for development can also choose from the following undergraduate courses:
- Arts and Global Rights
- Arts and Global Health
- Applied Drama and Theatre Economics

These courses look at how economic systems function, as well as the determination of income and development, international trade, and payment mechanisms. Matric Mathematics is required.

English Literature
Studying English Literature at Wits gives you the opportunity to learn various approaches to textual analysis and criticism that can be applied to a wide range of literature. You will also explore the relationship between literary works and their social, historical, and/or cultural contexts. English Literature prepares you for various communicative professions, like teaching, writing, research, journalism, editing, publishing, human resources, public relations, and more.
European Transnational Literary and Cultural Literature Studies

This field introduces students to a range of literary texts written in the main European languages (Spanish, Portuguese, French, German, Italian and Russian). Courses explore transnational relations and reciprocal influences especially with regards to Francophone, Lusophone and South American Spanish texts.

Film, Visual and Performing Arts

These courses span the intellectual and analytical study of topics relating to theatre, performance, visual arts and film within diverse contexts. You will develop conceptual creativity, intellectual rigour, and strong practical capabilities to prepare you for a career in the theatre, film, visual arts and entertainment industry, or for future academic study.

French and Francophone Studies

These courses introduce French, which is spoken in more than 20 African countries, in its spoken and written forms. You will develop an appreciation of French literature, thought, history, and civilisation. Courses that align well with French include Political Science, International Relations, Journalism and Media Studies, the Arts, and Business Studies.

Geography

These courses cover physical geography, human geography, and regional geography.

German

These courses introduce German in its spoken and written forms, and help you to develop an appreciation of German literature, thought, history, and culture. Germany is one of South Africa’s most important trading partners and German is the most commonly spoken language in the European Union. Graduates who are proficient in German are sought after by German-speaking companies and NGOs, as well as in tourism, diplomatic services and government departments. German aligns well with Humanities subjects.

History

Interested in historical, linguistic, literacy, or cultural perspectives of the past, the relationship between past and present, or the conservation and preservation of heritage? History revitalises views of the past, introduces exciting topics, and challenges many of the assumptions and approaches you may have learned at school. History will equip you with sought-after skills in research, analysis, and effective writing, speaking and thinking.

History of Art

History of Art examines images and objects in their historical contexts. It provides critical insights into the lives of makers, viewers, and users of art, as well as the spaces and times in which these images and objects are rooted. A History of Art major provides a gateway to understanding, critically analysing, and engaging in the visual world.

Industrial and Economic Sociology

Sociology is the study of society in all its complexity from empirical and theoretical perspectives. Human behaviour is shaped by the social contexts in which people find themselves. As such, Sociology helps us to understand how families, organisations, communities, cultural practices, and broader political, economic, and social processes affect the way people act and think. Sociology examines areas as diverse as disease, development, land reform, crime, culture, states, government, media, identity, gender, race, and class, among others. Industrial and Economic Sociology is a specialisation that focuses on the socially embedded nature of the economy and the workplace.

International Relations

The study of International Relations helps us understand why states go to war, why they trade with each other, and why they care when human rights are abused. You will gain an understanding of the key events and tools that are used to unpack and determine why states, international organisations, and individuals behave and engage the way they do. International Relations is a multidisciplinary field, with origins in history, economics, political science, sociology, and law. First-year courses provide a fundamental understanding of this exciting area of study.

Italian

These courses introduce Italian in its spoken and written forms. You will develop an appreciation of Italian literature, thought, history, and culture, and understand why Italy is a world leader in the culinary arts, interior design, and fashion and furniture design. Italian is useful for students planning careers in music, fine arts, design, architecture, linguistics, translation, interpreting, and international relations.

Law

All societies are governed by some form of law. These courses provide knowledge of legal systems and how they conform with morality. Topics include: Constitutional Law, Customary Law, Persons and Family Law, Criminal Law and Delict, Succession Law, and Contract Law.
Linguistics

Linguistics is the scientific study of language. In this course, you will study language on its own and as part of culture and society, referring to a wide range of languages in the process.

Mathematics

This field covers all aspects of Mathematics, including general knowledge and history of mathematical concepts. Matric Mathematics is essential.

Mathematical Statistics

This field covers Statistics, which deals with descriptive statistics, counting techniques, probability, discrete and continuous distribution, estimation, hypothesis testing, correlation, regression, and one-way analysis of variance. Matric Mathematics is essential.

Media Studies

Media Studies gives you the critical and analytical skills needed to function in the Information Age. You will be exposed to theories, debates, and discussions about the role of the media in society and find ways to analyse media operations, media products, and media consumption.

Music Studies

You will study music in its historical, cultural, and social contexts, encountering music from Africa, the western classical canon, popular music, and jazz. In your first year, you will study Film and Visual Performing Arts and proceed to Critical Music Studies in second and third year.

Philosophy

Philosophy searches for rational answers to fundamental questions about humans and the world they live in. Philosophical questions include abstract matters, such as whether religious belief is rationally defensible; whether humans have free will; whether abortion is morally permissible; and whether a philosophy of Ubuntu could be compatible with the death penalty.

Philosophy helps you to develop reflection skills that deepen your personal understanding and promote autonomy. It promotes reasoning. You will explore topics such as thinking correctly, devising practical methods of logical analysis, argument construction, and evaluation.

Political Studies

This field studies power relations in society, conflict, money matters, position, and influence or status. There are many competing analytical models in politics, each with its own concepts or terminology, and each with its own questions. Political Studies prepares you for a career in public affairs; former students include Winnie Madikizela-Mandela, Tony Leon, Valli Moosa, and Judge Richard Goldstone. A degree in Political Studies yields opportunities to work in non-governmental organisations, the public sector, private businesses, diplomacy, international organisations, survey research organisations, development bodies, and the media.

Portuguese

These courses introduce Portuguese in its spoken and written forms. You will develop an appreciation of Portuguese literature, thought, history, and culture. Portuguese has significant status in Africa, as the official language of PALOP (Portuguese-speaking African countries).

The courses are designed for beginners and students with prior knowledge of Portuguese. They include a communicative approach based on conversation skills and facilitated by multimedia tools. Courses that align well with Portuguese include International Relations, Political Sciences, Media Studies, and other language courses.

Psychology

Psychology studies human experience, behaviour, and the ways in which we relate to each other and our environment. Psychology offers a rich and diverse understanding of human functioning and is relevant to most aspects of our lives. As society has become more complex, Psychology plays an increasingly important role in understanding human behaviour and in shaping interventions to ensure optimal functioning of individuals, groups, and communities. You can major in General Psychology or Organisational Psychology.

South African Sign Language

This field introduces the receptive and productive skills of South African Sign Language (SASL), vocabulary in context, basic social functions and grammatical structures of SASL, the origins of signed language, and the concepts underlying Deaf Culture and the Deaf Community. If you major in SASL, you will also study SASL linguistics, poetry, and sociolinguistics for sign languages. SASL is recommended for students interested in Education, Deaf Education, Drama, Language, and Psychology.

Spanish

These courses introduce Spanish in its spoken and written forms, and helps students to develop an appreciation of Spanish literature, thought, and history.

Transnational Literary and Cultural Studies

Focus on the relationship between the arts, literature, and society. This field introduces you to a range of literary texts written in the main European languages (Spanish, Portuguese, French, German, Italian, and Russian). Courses explore transnational relations and reciprocal influences, especially regarding Francophone, Lusophone, and South American Spanish texts.
Mix and match courses to suit your career

Interested in African Studies as a career?

Choose majors from:

Choose courses from:
- South African Sign Language, History, History of Art, International Relations, Modern Languages, Screen Studies

Interested in Communications or Journalism as a career?

Choose majors from:
- Media Studies, Languages, Sociology, Psychology, International Relations, Political Studies, and Film, Visual and Performing Arts, History of Art

Interested in Developmental Studies as a career?

Choose majors from:

Interested in Economics and Commerce as a career?

Choose majors from:
- Labour and Economic Sociology, History, International Relations, Maths, Political Studies, Psychology/Organisational Psychology, Philosophy

Interested in Education as a career?

Choose majors from:
- African Languages and Literature, History, Geography, Linguistics, Modern Languages, Philosophy, Political Studies, Psychology, Sociology, South African Sign Language, History of Art

Interested in English and Literature?

Choose majors from:
- African Literature and English offer various course combinations.

Study diverse literatures from different cultures and contexts as well as English Language and Literacy, Film, Visual and Performing Arts

Interested in Global Politics and Diplomacy as a career?

You can choose majors from Economics, International Relations, and Political Studies, and combine these with a language course, such as French, German, Italian, Portuguese, or Spanish

Choose courses from:
- African Studies in History and Politics, History, History of Art, Philosophy, Psychology, Sociology

Interested in Heritage and Museum work as a career?

Choose majors and courses from:
- Archaeology, Geography, History, Anthropology, Film, Visual and Performing Arts, History of Art, various languages

Interested in History as a career?

Choose majors and courses from:

Interested in Language Studies and Translation as a career?

Do you want to learn a range of different languages, or study the relationship between language, society, and culture?

Choose majors from:

Interested in Law, Culture and Language as a career?

The dynamic relationship between languages and the values, attitudes, beliefs, and rules of society will be valuable to students studying Law.

Choose a second major or course from:

Interested in Literary and Cultural Studies as a career?

Choose majors and courses from:

Interested in Media, Literature and Culture as a career?

Understand the relationship between the modern mass media, literature, and culture in the constantly evolving technological age.

Choose majors from:

Interested in Work, Organisation and Society as a career?

If you want to understand the relationship between the world of work, the individual, and the broader society.

Choose majors from:
BA(Law)

Bachelor of Arts (Law)

ABA02

Duration
3 years

NSC Requirements

APS
43+

English Home Language OR
First Additional Language
Level 5

Mathematics
Level 3

Maths Literacy
Level 4

Wait-listing
Applicants with an APS of 39–42 will be wait-listed, subject to place availability.

International Qualifications on page 33

Closing Date: 30 September

Careers

• Advocate
• Arbitrator
• Attorney
• Conveyancer
• Judge
• Legal Advisor
• Mediator
• Negotiator
• Professional Counsellor
• Prosecutor

The BA is also a route to an LLB qualification, taken over two years after completing a BA (with Law major) degree; or over three years if no law courses are completed during your BA degree.

Programme Description

Students interested in studying law are encouraged to take a complete BA or BCom degree first, preferably choosing Law as one of their majors. This enables students to get a feeling for the general law subjects before committing to the study of Law, whilst also developing knowledge and skills in other disciplines which will be useful to them in the context in which they will one day be practicing law. Students envisaging a future in human rights, family law, constitutional law, international law, etc. amongst others are advised to begin their legal studies with a BA(with Law major), pairing this with courses like politics, sociology, economics or languages.
Situated in the vibrant hub of Braamfontein, Johannesburg, the Wits School of Arts (WSoA) offers programmes in Cultural Policy Management, Drama for Life (Applied Theatre and Drama Therapies), Digital Arts, Fine Arts, Film and Television, Heritage Studies, History of Art, Music, and Theatre and Performance – at undergraduate, graduate, and doctoral Levels. These programmes will help you to critically engage with South Africa’s rich and diverse cultural life and heritage. You will also gain comprehensive professional training in the arts – across local urban, African continental, and international contexts.

At WSoA, you can access a wide range of specialised teaching environments, including theatres, music venues, sound recording studios, fine arts studios, digital media laboratories, television studios, and multimedia libraries. You may also have the opportunity to participate in an international exchange programme, thanks to the School’s excellent global reputation.

WSoA graduates are among the top thought leaders and creative professionals in the arts world.
Digital Arts

Bachelor of Arts in Digital Arts
AFA11
Duration
4 years
-----------------------------
NSC Requirements
APS
34+
English Home Language OR First Additional Language
Level 5
Wait-listing
Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject to place availability.
Additional Selection Criteria
You will be required to attend a digital arts workshop.
Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.
International Qualifications on page 33
Closing Date: 30 September
-----------------------------
Careers
• Animator
• Game Developer
• Systems Administrator
• Game Writer
• VR Developer
Programme Description
Combine technical and creative skills in game design.
The BA in Digital Arts degree brings together the creative and technical aspects of game creation. You will learn a variety of skills, including technical development and programming, illustration, animation, writing, and sound design. You will also learn about game history and theory, game mechanics, programming, puzzle design, Level design, character design, and much more. As the degree progresses, you may choose to specialise in Animation, Writing and Interactivity or Interactive Art.
This multidisciplinary programme is offered to students from the School of Electrical and Information Engineering (BEngSc Digital Art) and the WSoA (BA Digital Arts).
Curriculum
First year
Film, Visual and Performing Arts IA and IB
Key Concepts in Game Design IA and IB
Digital Arts Project IA and IB
AND
one pair of electives from the WSoA
AND
two BA semester courses
OR
one BA year course
Second year
Digital Art Theory IIA and IIB
Introduction to Game Creation IIA and IIB
Digital Art Design Project
Digital Art Practice IIA
AND
two BA semester courses
OR
one BA year course
Third year
Digital Art Theory IIIA and IIIB
Game Design IIIA and IIIB
plus two of the following units:
• Writing
• Music and Literacy Skills
• Film, Visual and Performing Arts IIA and IIIB
OR
• Music Composition Studies IIIA and IIIB
AND
• Introduction to Principles of Animation
• Introduction to Worldwide Web as Creative Medium
Fourth year
Research Project
OR
Long Essay
Digital Arts Theory
Digital Arts Project
PLUS, one of the the following units:
• Digital Animation
• Advanced Animation
OR
Experimental Animation
• Advanced Game Design
• Experimental Narratives
• Applied Concepts in Interactive Media Practice
• Writing and Interactivity IV
Bachelor of Arts in Dramatic Art

AFA00

Duration
4 years

---

NSC Requirements

APS
34+

English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with entry requirements of at least 30-33 APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Students must speak English as a Home Language or First Additional Language and must meet departmental selection procedures, which include auditions/ interviews.

Bookings for Drama auditions close in November 2019.

International Qualifications on page 33

Closing Date: 30 September

---

Careers

- Choreographer
- Critics
- Director
- Designer
- Performer
- Production and Arts Manager
- Teachers/Facilitators/Academics
- Theatre-Maker
- Theorists
- Writer

Programme Description

Immerse yourself in the theoretical and practical study of theatre and performance.

The four-year BA in Dramatic Art programme covers the historical and theoretical developments in drama and film, as well as the theoretical and practical study of theatre, performance, and cognate disciplines. The degree helps you develop critical insight and imaginative intelligence, so you can become an innovative theatre-maker, performer, director, teacher, writer or designer. It also gives you real-world experience in all areas of the performing and communicative arts. You will work regularly in the Wits Theatre, a professionally run four-theatre complex with excellent facilities.

Curriculum

First year

(Register for eight courses)

Course (A) is taken in the first semester and Course (B) in the second semester.

Performance Practice IA and IB
Theatre and Production IA and IB

Courses at Level 1000 yielding 36 points in a subject approved by the Senate.

Compulsory third course:

- Theatre and Performance Studies III and B

Fourth year

Professional majors

ANY two of the following:
- Design II
- Performance Studies II
- Movement Studies II
- Writing II
- Directing II
- Arts Management II
- Digital Arts II
- Applied Drama and Theatre II

Compulsory course:

Theatre and Performance Studies IIIA and B

Fourth year

Professional majors

ANY two of the following:
- Design IV
- Performance Studies IV
- Movement Studies IV
- Writing IV
- Directing IV
- Arts Management IV
- Digital Arts IV
- Applied Drama and Theatre IV

OR
- Film Studies IV A and B
- Media Studies IV A and B
- Introduction to Drama Therapy IV A and B

AND
- Long Essay or Research Project

---

Bachelor of Arts in Dramatic Art
For more information visit www.wits.ac.za/course-finder/undergraduate/humanities/dramatic-art/
Film and Television

Bachelor of Arts in Film and Television
AFA10
Duration
4 years
-----------------------------

NSC Requirements
APS 34+
English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with entry requirements of at least 30-33 are invited to apply.

Additional Selection Criteria
Applicants have to submit a portfolio and may have to attend an interview. Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.

International Qualifications on page 33
Closing Date: 30 June

Careers
• Director
• Editor
• Film-Maker
• Producer
• Writer

Programme Description

Explore multiple aspects of filmmaking.

Whether you’re an aspiring director, a would-be producer, a creative and/or someone who wants to write innovative South African stories for film or television, the Bachelor of Arts in Film and Television (BAFT) offers exciting and creative learning opportunities. You will benefit from theoretically informed and production-based learning in a range of formats, including documentary and fiction short films, music videos, and experimental filmmaking, as well as specialised courses in cinematography, post-production, studio production, and sound design. The four-year undergraduate programme allows you to interrogate multiple aspects of filmmaking, in addition to specialised technical training.

Curriculum

First year
Film, Visual and Performing Arts I
AND
Image Creation I
Visual Storytelling I
AND
two BA semester courses
OR
one BA year course

Second year
Film, Visual and Performing Arts II
AND
Screen Studies IIB

Third year
Film, Visual and Performing Arts IIIA & B
Screen Studies IIIA
AND

Fourth year
five compulsory courses:
• Long Essay: Independent Study
• Research Project: Short Film
• Research Project: Short Formats

four from the following:
• Fact/Fiction: Blurring the Boundary (semester I)
• Fundamentals of Cinematography (semester I)
• Fundamentals of Post-Production (semester II)
• Experimental Film (semester II)
• Screenwriting IVA
• Screenwriting IVB

OR

three of the above and one appropriate fourth year course from the Wits School of Arts.

Note: BAFT students are required to take Screen Studies IIB and IIIA

Screen Studies IIB

BOTH of the following:
Image Creation II
Visual Storytelling II

Third year
Film, Visual and Performing Arts IIIA & B
Screen Studies IIIA
AND
Screen Studies IIIA

Four from the following:
• Directing Fiction (semester I)
• Documentary Filmmaking (semester II)
• Principles of Sound Design (semester I)
• Principles of Studio Production (semester II)
• Screenwriting IIIA
• Screenwriting IIB
OR
• One appropriate third year course from WSoA

Fourth year
five compulsory courses:
• Long Essay: Independent Study
• Research Project: Short Film
• Research Project: Short Formats

four from the following:
• Fact/Fiction: Blurring the Boundary (semester I)
• Fundamentals of Cinematography (semester I)
• Fundamentals of Post-Production (semester II)
• Experimental Film (semester II)
• Screenwriting IVA
• Screenwriting IVB

OR

three of the above and one appropriate fourth year course from the Wits School of Arts.

Note: BAFT students are required to take Screen Studies IIB and IIIA
Bachelor of Arts in Fine Arts

AFA01

Duration
4 years

NSC Requirements

APS
34+

English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject place availability.

Additional Selection Criteria
Applicants must contact the School to schedule an interview. Remember to take a portfolio of work to the interview. Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.

International Qualifications on page 33
Closing Date: 30 September

Careers
• Animator
• Art Historian
• Artist
• Curator
• Critic
• Designer
• Photographer
• Teacher

Programme Description

Explore all aspects of contemporary fine art.

The BA Fine Arts degree combines fine art studio practice with academic study in Art History, Theory, and Criticism.

Painting, sculpture, photography, print-making, video, installation, and digital media form the core of the studio programme, which is supplemented by a course in Professional Practice and Curating, along with a number of interdisciplinary options from other courses in the WSoA.

Curriculum

First year
Fine Arts I
Film, Visual and Performing Arts I

one of the following:
• Concepts in Theatre and Performance IA and IB
• Drawing and Contemporary Practice IA and IB
• Music Literacies and Skills IA and IB
• Performance Studies IA and IB
two BA semester courses

OR
one BA year course

Second year
Fine Arts II
History of Art II

one of the following:
• Design and Production IIA and IIB

AND
• Writing IIA and IIB
• Drawing and Contemporary Practice IIA and IIB
• Performance Studies IIA and IIB

OR
Two BA semester courses

OR
one BA year course

Third year
Fine Arts III
History of Art III
two of the following:
• Introduction to the World Wide Web as a Creative Medium
• Introduction to Principles of Animation
• Drawing and Contemporary Practice IIA and IIB
• Theories of Art
• Design IIA and IIB

Fourth year
Fine Arts IV
Critical Theories and Visual Cultures
Research Project

one of the following:
• Professional Practice
• Applied Concepts in Networked Digital Media
• Introduction to 3D Computer Based Animation
• Design IV
• Key Moments in 20th Century Arts:
  - Tradition and Innovation
  - Memory and Visual Culture
Programme Description

Experience and learn from multiple music traditions and disciplines.

This degree gives you an opportunity to experience and learn from multiple music traditions. This pragmatic and philosophical programme exposes you to new and different music domains, skills, and knowledge – all of which better prepares you for a variety of music careers.

Students develop their practical skills with a jazz or classical music focus, voice for musical theatre is an additional option. In each of these choices you will encounter music from South Africa as well as international musical genres. Beyond this chosen practical focus, all students can benefit from learning skills that work across musical genres, such as music technology and studio practice, composition and arrangement, and community music-making among others.
Bachelor of Music
AFA02
Duration
4 years

NSC Requirements
APS 34+
English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Applicants must attend an interview and audition at the Wits School of Arts.
An extended curriculum provides for BMus students and is determined by academic background and performance.
Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.

International Qualifications on page 33
Closing Date: 30 September

Careers
• Arrangement
• Composing
• Conducting
• Education
• Entertainment Law
• Music Journalism
• Music Therapy
• Performance
• Radio/TV/Digital Media
• Recording Industry

Curriculum
First year
Film, Visual and Performing Arts IA and IB
Music Literacies and Skills IA and IB
Music Performance Studies IA and IB
two BA semester courses
OR
one BA year course

Second year
Critical Music Studies IIA and IIB
Music Literacies and Skills IIA and IIB
Music Performance Studies IIA and IIB
two BA semester courses
OR
one BA year course

Third year
• Music in History and Society:
  - Music and the Theatre
  - Music, Sound, and the Moving Image
  - Musical Modernisms
  - Music in Contemporary Lives
• Composition IIIA and IIIB
• Performance IIIA and IIIB
Choose one of the following courses if only one course was chosen from the specialisations above:
Performance Arts Management IIIA and IIIB
Introduction to the World Wide Web as a Creative Media
Introduction to Principles of Animation

Fourth year
Music Criticism: Research Project
Music Business Studies
Choose one of the following specialisations:
• Composition
• Performance
• Community Music
• Long Essay
Choose one course at fourth year Level from the following:
• Composition Theory and Analysis (if not taken in the composition specialisation)
• Music Performance Minor Study
• 3D Computer Based Animation
• Applied Concepts in Interactive Media Practice
• Performing Arts Management
Professional Programmes in Education

The Bachelor of Education (BEd) is a four-year, full-time internationally recognised qualification, offering specialisation in early childhood development, and primary and secondary school specialisations.

If you want to teach after completing a first degree, you may apply for the Postgraduate Certificate in Education (PGCE). You must have taken at least three approved teaching subjects in your first year of study.

The Wits School of Education

The Wits School of Education offers high-quality teaching and research through thoughtfully developed undergraduate and postgraduate programmes, as well as access to engaging seminars facilitated by well-known academics in education, teaching, and learning.

You can choose from three BEd degrees:
• Foundation Phase Teaching: Grades R-3
• Intermediate Phase Teaching: Grades 4-7
• Senior Phase and Further Education and Training Teaching: Grades 8-12

If you want to qualify as a teacher at the secondary (high) school level, you may choose a first degree programme (such as a BA, BSc, or BCom), followed by a one-year Postgraduate Certificate in Education (PGCE).

The BEd qualifies you to teach in any school in South Africa, and to register with the South African Council of Educators (SACE). A BEd from Wits provides career options in teaching or educational research.

While certain courses are compulsory for all BEd students, you can take other courses that prepare you to teach particular phases and teach subjects effectively to different age groups. All students undertake regular practical teaching experience during their studies.
Bachelor of Education: Foundation Phase Teaching

HFA00

Duration
4 years

---

NSC Requirements

APS 36+

English Home Language OR First Additional Language
Level 5

Wait-listing
Applicants with an entry requirement of at least 31-35
APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Preference is given to students with higher English results.
Due to limited space, meeting the minimum requirements does
not guarantee a place. Final selection is made subject to place
availability, academic results, and other entry requirements,
where applicable.

International Qualifications on page 33
Closing Date: 30 September

---

Curriculum

First year
Education IA and B
Introduction to Foundation Phase A/B
Mathematics for Primary School Teachers
Childhood Studies I
Literacy for Primary School Teachers I
Arts for Teachers
Teaching Experience IA and IB

Second year
Education II

Mathematics for Primary School Teachers II
Literacy for Primary School Teachers II
Childhood Studies II
Choice of first additional language (a language not taken
for the NSC and most not be a home language):
isiZulu IA/B

OR
Sesotho IA/B
Teaching Experience II

Third year
Education III
Mathematics for Foundation Phase Teachers III
Literacy for Primary School Teachers III
Childhood Studies III
Choice of first additional language:
isizulu II

OR
Sesotho II
Teaching Experience IIIA/B

Fourth year
Education IV
Mathematics for Foundation Phase Teachers IV
Literacy for Primary School Teachers V
Childhood Studies IV
Choice of first additional language:
isizulu III

OR
Sesotho III
Teaching Experience IV A/B

Two electives:
ICT Literacy/Financial Planning and Entrepreneurship/Fun with
Choir/Physical Activity in Sports in Schools based Support
Intermediate Phase Teaching (Grades 4-7)

Bachelor of Education: Intermediate Phase Teaching
HFA01
Duration
4 years

NSC Requirements
APS 36+
English Home Language OR First Additional Language Level 5
Wait-listing
Applicants with an entry requirement of at least 31-35 APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Preference is given to students with higher English results.
Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.

International Qualifications on page 33
Closing Date: 30 September

Curriculum
First year
Education IA and B
Mathematics for Primary School Teachers I
Literacy for Primary School Teachers I
Social Sciences I
Becoming a Teacher A and B
English I
Teaching Experience IA/IB

Second year
Education II

Third year
Education III
Mathematics for Primary School Teachers III
Teaching Home Language in the Intermediate Phase III
Life Skills I: Arts for Teachers
Teaching Natural Sciences (Intermediate Phase A and B)
Teaching Experience IIIA and B

Fourth year
Education IV
Mathematics for Primary School Teachers IV
Teaching Additional Language in the Intermediate Phase
Life Skills II: Personal, Social and Physical Wellbeing
Financial Planning and Entrepreneurship
Being a Teacher
Teacher Experience IV A and B

Electives in year two:
• ICT Literacy
• Fun with Choir
• Physical Activity in Sports in Schools
• School Based Support

Mathematics for Primary School Teachers II
Literacy for Primary School Teachers II
choose one language course:
• isiZulu
• Sesotho
• South African Sign Language
choose one teaching course:
• Natural Science
• Social Sciences (Intermediate Phase)
A and B Teaching Experience II
Senior Phase and Further Education and Training Teaching (Grades 8-12)

**Bachelor of Education:**
Senior Phase and Further Education and Training Teaching
HFA02
Duration
4 years

---

**NSC Requirements**
APS 36+

**English Home Language OR First Additional Language**
Level 5

**Wait-listing**
Applicants with an entry requirement of at least 31-35 APS points are wait-listed, subject to place availability.

**Additional Selection Criteria**
Preference will be given to students with higher English results.
Due to limited space, meeting the minimum requirements does not guarantee a place. Final selection is made subject to place availability, academic results, and other entry requirements, where applicable.

**International Qualifications on page 33**

**Closing Date:** 30 September

---

**Curriculum**

**First year**
Education IA and B
Literacy for Senior Phase and FET Teachers
Becoming a Teacher A and B

**Choose a first major from the following:**
- English I
- Information Technology I
- Natural Science I
- Technology I

**Choose a second major from the following:**
- isiZulu I
- Mathematics I
- Sesotho I

**Second year**
Education II
Life Skills for Teachers

**Choose the Level II courses of the major you did in first year:**
- Natural Sciences II
- English II
- isiZulu II
- Sesotho II
- Mathematics II
- Social Sciences II
- Technology II
- Information Technology II

**Choose the senior phase pedagogy courses A and B corresponding to one of the courses above:**
- Teaching Natural Sciences (Senior Phase A and B)
- Teaching English (Senior Phase A and B)
- Teaching isiZulu (Senior Phase A and B)
- Teaching Sesotho (Senior Phase A and B)
- Teaching Mathematics (Senior Phase A and B)
- Teaching Social Sciences (Senior Phase A and B)
- Teaching Technology (Senior Phase A and B)
- Teaching Information Technology (Senior Phase A and B)
- Teaching Experience II

**Third year**
Education III

**Choose the Level III major you did in the second year:**
- Life Sciences IIIA and B
- Physical Sciences IIIA and B
- Geography III
- History III
- English III
• isiZulu III
• Sesotho III
• Mathematics III
• Engineering Graphics and Design III
• Mechanical Technology III
• Information Technology III

Choose the FET pedagogy courses A and B corresponding to one of the courses above:
• Teaching Life Sciences
• Teaching Physical Sciences
• Teaching Geography
• Teaching History
• Teaching English
• Teaching isiZulu
• Teaching Sesotho
• Teaching Mathematics
• Teaching Engineering Graphics and Design
• Teaching Mechanical Technology
• Teaching Information Technology

Choose the Senior Phase Pedagogy Courses A and B corresponding to your second year major:
• Teaching Natural Sciences (Senior Phase A and B)
• Teaching Social Sciences (Senior Phase A and B)
• Teaching English (Senior Phase A and B)
• Teaching isiZulu (Senior Phase A and B)
• Teaching Sesotho (Senior Phase A and B)
• Teaching Mathematics (Senior Phase A and B)
• Teaching Technology (Senior Phase A and B)
• Teaching Information Technology (Senior Phase A and B)

Teaching Experience IIIA

AND

Teaching Experience IIIB

Fourth year

Education IV

Being a Teacher IV

Choose at least one Level IV course from the list below that you completed at Level III:
• Life Sciences IV
• Physical Sciences IV
• Geography IV
• History IV
• English IV
• isiZulu IV
• Sesotho IV
• Mathematics IV
• Engineering Graphics and Design IV
• Mechanical Technology IV
• Information Technology IV

AND

Either a Level IV course from the list above completed at Level III

OR

A Level III course

OR one of the following:

Choose the FET pedagogy course corresponding to the Level III OR Level IV course above:
• English I
• isiZulu I
• South African Sign Language
• Sesotho I
• Teaching Life Sciences
• Teaching Physical Sciences
• Teaching Geography
• Teaching History
• Teaching English
• Teaching isiZulu
• Teaching Sesotho
• Teaching Mathematics
• Teaching Engineering Graphics and Design
• Teaching Mechanical Technology
• Teaching Information Technology
• Teaching Experience IV
Professional Programmes in Human and Community Development

School of Human and Community Development

The School of Human and Community Development offers a Bachelor of Arts degree (which can include Psychology as a major), a B (Social Work) degree, a B (Speech-Language Pathology) degree, and a B (Audiology) degree. Majors include Audiology, Speech-Language Pathology, Psychology, and Linguistics. You can also take related courses in medical, educational, linguistic, and psychological areas that give you the necessary background knowledge for your chosen career.

Social workers help individuals, groups, or communities to resolve relational, emotional, material, and social development difficulties that hinder their social adjustment. The four-year Bachelor of Social Work programme offers basic preparation in social science subjects, as well as professional education in social work theory and practice, with an emphasis on practical work. Practical work takes place at the University of the Witwatersrand’s Speech and Hearing Clinic and at various speech and hearing clinics in hospitals and at schools across Gauteng.

Psychology complements a range of courses in humanities and social sciences. This field offers a number of career options, including working within organisations, working with the mentally ill and disturbed children, working to change destructive patterns in communities, and researching social and health phenomena.
Audiology

Bachelor of Audiology
AFA13
Duration
4 years

NSC Requirements
APS 34+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 4
Wait-listing
Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Only 30 places are available in the first year of study for the Bachelor of Audiology degree. Applicants are selected on the basis of academic merit. This aligns with the University’s transformation policy for student selection.
Potential students are encouraged to observe a Speech Pathology and Audiology professional, preferably in a public hospital setting.
The closing date for applications is 30 June 2019. Applicants writing the matriculation examination in November 2019 and who are selected at this stage, are offered admission conditionally, subject to passing the matriculation examination, meeting the minimum requirements for admission, and attaining a specified standard in the matriculation examination (this is indicated in the letter providing a firm offer). Refer to page 24 for more information on the NBT.
International Qualifications on page 33
Closing Date: 30 June

Careers
• Community Work and Outreach
• Educational Setting
• Government Healthcare Settings
• Private Practice

Programme Description
Assess and treat children and adults with hearing and related difficulties.

Audiologists assess, advise, and provide rehabilitative services to children and adults with hearing and balance disorders, and related communication difficulties.

In the four-year Bachelor of Audiology programme, you will major in Audiology and Psychology.

Other courses include South African Sign Language, Linguistics, Anatomy, and Neurology, among others. Practical courses are held at the University's Speech and Hearing Clinic and at various speech and hearing clinics at hospitals, schools, and care facilities, within the broader urban and rural context.

Curriculum
First year
Speech and Hearing Science
Speech Pathology and Audiology I
Psychology I
Linguistics: Introduction to the Structure of Language I
Linguistics: Language, Mind and Brain I
South African Sign Language: Basic IA
South African Sign Language: Basic IB
Anatomy and Physiology for Speech, Language and Hearing
Second year
Linguistics II
Psychology II
Audiology II
Clinical Practical
Neuroanatomy
Third year
Audiology
Psychology III
Practical in Audiology
Fourth year
Research Report
Clinical Practical in Audiology
**Speech-Language Pathology**

**Bachelor of Speech-Language Pathology**

AFA12

**Duration**

4 years

**NSC Requirements**

**APS**

34+

**English Home Language OR First Additional Language**

Level 5

**Mathematics**

Level 4

**Wait-listing**

Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject to place availability.

**Additional Selection Criteria**

Only 30 places are available in the first year of study for the Bachelor of Speech-Language Pathology degree. Applicants are selected on the basis of academic merit (i.e. school leaving results and NBT scores). This aligns with the University’s transformation policy for student selection.

Potential students are encouraged to observe a speech-language pathology professional, preferably in a public hospital setting.

**Programme Description**

*Treat children and adults with communication disorders.*

Speech-language therapists assess and treat children and adults with communication disorders. These include disorders of speech and language, articulation, voice, fluency, expressive and receptive language problems, and feeding and swallowing problems. They also screen children and adults for hearing difficulties.

In the four-year Bachelor of Speech-Language Pathology degree, you will major in Speech and Language Pathology and Psychology. Other courses include a language course, such as isiZulu, Linguistics, Anatomy, and Neurology.

Practical courses are held at the University’s Speech and Hearing Clinic and at speech and hearing clinics at hospitals, schools, and care facilities, within the broader urban and rural context.

**Curriculum**

**First year**

Speech and Hearing Science
Speech Pathology and Audiology I
Psychology I
Linguistics: Introduction to the Structure of Language I
Linguistics: Language, Mind and Brain I
Anatomy and Physiology for Speech, Language and Hearing

**Second year**

Neuroanatomy
Linguistics II
Psychology II
Speech-Language Pathology II
Clinical Practical in Speech-Language and Hearing

**Third year**

Practical in Speech-Language Pathology III
Psychology III

**Fourth year**

Speech-Language Pathology
Research Report
Clinical Practical

**Careers**

- Community Work and Outreach
- Educational Settings
- Government Healthcare Settings
- Private Practice

**International Qualifications on page 33**

**Closing Date: 30 June**
Social Work

Bachelor of Social Work
AFA04
Duration
4 years

NSC Requirements
APS 34+
English Home Language OR First Additional Language
Level 5
Wait-listing
Applicants with an entry requirement of at least 30-33 APS points are wait-listed, subject to place availability.

Additional Selection Criteria
Potential social work students are required to write a National Benchmark Test (NBT) at an affiliated venue before 31 October 2019. Refer to page 24 for more information on the NBT.

International Qualifications on page 33
Closing Date: 30 September

Careers
• Marriage and Divorce Counsellor
• Substance Abuse Counsellor
• Development Planner Working with Disadvantaged Communities
• Lecturer
• Personnel Manager
• Probation Officer
• Social Welfare Manager
• Social Welfare Researcher
• Social Worker in the fields of:
  - Child and Family Welfare
  - Geriatrics
  - Occupational
  - Medical
  - Educational Social Work

Programme Description
Promote social change, and the development and wellbeing of people.

The Social Work Department strives to be a centre of excellence in promoting social change, development, and the wellbeing of people, through research, teaching, and community service. Social workers help individuals, groups, and communities solve problems relating to human relationships, and facilitate the empowerment and liberation of people by enhancing their wellbeing and promoting social change. Principles of human rights, anti-oppression, and social justice form the foundation of the profession.

During the four-year degree, you will learn about professional ethics and processes in social work, as well as different intervention models, the legislative framework, research methodologies, and concepts and theories underpinning the profession.

Once you’ve completed the undergraduate degree, you may extend your studies to Master’s and Doctorate levels.

Curriculum
First year
Psychology I
Sociology I
Social Work I
Second year
Psychology II
Sociology II
Social Work II
Third year
Social Work 111
Psychology III
OR
Sociology III
Fourth year
Field Instruction
Social Work Theory
Research Report
The Bachelor of Science (BSc) degree covers many areas.

This flexible three-year programme lets you ‘design’ your own curriculum based on your interests or chosen majors.

An additional year of study could lead to a teaching qualification or a more specialised Honours qualification. And because the Faculty actively encourages research, many students go on to study for Master of Science and Doctoral degrees.

When planning your BSc degree, keep in mind...

You need two major subjects at third-year Level. Choose complementary first-year subjects that will expand your options as you proceed to second and third year. In some cases, you can include courses from other faculties, like Psychology, Philosophy, or Economics.
Broad Areas of Study in Science

The broad areas of study covered in the BSc degree include:

Biological Sciences

Biology involves the study of living organisms, from understanding genes to managing ecosystems. This includes the biochemistry of molecules, such as DNA, RNA, and proteins; the physiological functions of cells, tissues, organs, and organ systems; the influence of evolutionary relationships on biological problems; and aquatic and terrestrial ecology.

Biological Sciences fall into two main streams: the School of Animal, Plant and Environmental Sciences, and the School of Molecular and Cell Biology.

Courses offered by the School of Animal, Plant and Environmental Sciences cover three broad themes: Biodiversity, Ecology and Conservation, and Organismal Biology.

You will study living things and their interaction with the environment. Specialist areas include savannas, grasslands, and aquatic biology, focusing on biodiversity, sustainable resources, and range limitation; ecology and animal behaviour (herbivores, beetles, rodents, lizards, snakes, birds, etc.); biocontrol; biodiversity; conservation; restoration; ecophysiology; systematics; taxonomy; and evolutionary biology.

The courses teach important basic knowledge, while exploring new and relevant fields. Training involves both field work and laboratory skills. The majors combine courses to offer you flexibility and choice. The School of Molecular and Cell Biology offers four majors: Applied Bioinformatics, Biochemistry and Cell Biology, Genetics and Developmental Biology, and Microbiology and Biotechnology.

This programme gives you a comprehensive introduction to molecular advances and their application in medicine, agriculture, and biotechnology. Considered the science of the future, molecular understanding has made a substantial impact in a number of disciplines, including bioinformatics, forensics, and drug design.

Regardless of the stream you choose, you must register for Introductory Life Sciences, Chemistry, and Auxiliary Mathematics in your first year. Other course options include Complementary Life Sciences, Physics Auxiliary, Psychology, Geography, Archaeology, and Philosophy.

Earth Sciences

Earth Sciences study the earth’s processes, atmosphere, and organisms. Specialist fields include the exploration for, and mining of, minerals; weather and earthquake prediction; the evolution of species; and the state of our natural environment and how to best manage it.

Earth Sciences courses are taught through the Schools of Geosciences and Geography, Archaeology, and Environmental Studies.

Mathematical Sciences

Wits has three ‘Mathematical Sciences’ schools, including the School of Mathematics, the School of Computer Science and Applied Mathematics, and the School of Statistics and Actuarial Science.

Know the difference

- Pure Mathematics is a developing science.
- Computer Science covers hardware and software, in all their applications.
- Applied Mathematics has applications in banking, finance, and industry.
- Statistics and Actuarial Science are important in business and governmental planning, insurance, finance, banking, and investments.

Physical Sciences

Physical Sciences include nuclear, particle, solid and liquid state physics, as well as electricity, electronics, magnetism, optics, acoustics, heat, and thermodynamics. This area also covers the composition of matter (gas, liquid or solid) and the changes that take place under certain conditions. Physical Sciences are taught by the Schools of Chemistry and Physics.

The BSc programme is based on a credit system. Each course carries a number of credits, defined by Level and duration. You need to complete a minimum number of science courses to have two major courses at third-year Level, one of which must be in the Faculty of Science.

The BSc points credit structure:

Four Level I courses
- three of these must be major courses
- minimum of 144 credits

Three Level II courses
- two of these must be major courses
- minimum of 144 credits

Two Level III courses
- at least one of which must be taken through the Faculty of Science
- minimum of 144 credits

Studying science opens doors to exciting careers in fields like medical research, chemistry, computer science, biotechnology, genetic engineering, and environmental sciences.
Bachelor of Science in the field of Biological Sciences

SBA11

Major: Biodiversity

Duration

3 years

NSC Requirements

APS

40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 5

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

- Agricultural Research Council (ARC)
- Biodiversity Planner
- Biology Education
- Department of Water Affairs and Forestry (DWA)
- Education Officer
- Herbaria (e.g. at Kirstenbosch)
- Medical Research (Linked to Herbal Medicines)
- Nature Conversation
- Research for the Council for Scientific And Industrial Research (CSIR)
- Scientific Journalism
- Private Consulting Firms
- South African National Biodiversity Institute (SANBI)

Programme Description

Study the foundations of animal, ecology, and plant sciences.

This exciting course, offered by the School of Animal, Plant and Environmental Sciences, provides you with the appropriate skills, knowledge, and attitudes needed for a range of zoological, botanical, and ecological careers and specialisations.

Curriculum

First year

Introductory Life Sciences I

AND

Chemistry I

AND

Auxiliary Mathematics I

AND

Any other Level I course

Recommended:

Complementary Life I Sciences I

Second year

Aquatic Ecology II

Biotic Diversity II

Evolution II

Fundamentals of Ecology II

Introduction to Animal Behaviour II

AND

Basic Statistics for the Natural Sciences II

AND

Any other Level II courses

Third year

Each major has a choice of the following courses:

Animal Behaviour III

Behavioural Ecology III

Biogeography III

Biosystematics and Evolution III

Diversity, Ecology and Economic Importance of Algae III

Medical and Applied Entomology III

Molecular Ecology III

Palaeontology III

Physiological Entomology III

Plant Propagation and Conservation III

Sustainability and Environmental Sciences III

AND

one field trip course:

- Applied Freshwater Ecology and Management III

OR

one laboratory course:

- Microscopy III

- Service Learning in Biology III

Course selection is subject to the guidance of the School for second and third year majors.
Ecology and Conservation

Careers
- Ecotourism
- Environmental Consultancy
- Environmental Economist
- Environmental Education
- Environmental Engineer
- Environmental Lawyer
- Environmental Management
- Environmental NGO
- Forestry
- Nature Conservation
- Planning and Consulting
- Wildlife Documentaries
- Research for South African Environmental Observation Network (SAEON)

Programme Description

Study ecology, conservation, and environmental science.

You will gain insight into the quantitative study and use of ecological, physiological, and systematic principles. These are studied in the contexts of ecology, conservation, and environmental science, and their applications in conservation biology and environmental management.

You can continue studies in Law, Economics, Engineering, Veterinary Science, and Development Management.

Offered by the School of Animal, Plant and Environmental Sciences, this career line includes diverse training in ecology and conservation, which are sought-after skills in dealing with the interdisciplinary challenges faced by society.

Curriculum

First year
Introductory Life Sciences I

AND

Second year
Aquatic Ecology II
Evolution II
Fundamentals of Ecology II
Introduction to Animal Behaviour II

AND

Any other Level II courses

Third year
Each major has a choice of the following courses:
- Applied Population Ecology III
- Ecological Communities and Biodiversity Conservation III
- Functional Ecology in Changing Environments III
- Molecular Ecology III
- Plant propagation and Conservation III
- Spatial Ecology and Conservation III
- Sustainability and Environmental Sciences

AND

one field trip course:
- Applied Freshwater Ecology and Management III
- Field Methods in Terrestrial Ecology III
- People and Conservation Field Course III

OR

one laboratory course:
- Service Learning in Biology III
- Microscopy III

Course selection is subject to the guidance of the School for second and third year majors.
Organismal Biology

Bachelor of Science in the field of Biological Sciences
SBA11
Major: Organismal Biology
Duration
3 years

NSC Requirements
APS
40+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.
International Qualifications on page 35
Closing Date: 30 September

Programme Description
Study how evolution, heredity, and development shape animal and plant life.

Animal and plant life is shaped by central processes of evolution, heredity, and development. In the School of Animal, Plant and Environmental Sciences, we focus largely on whole organisms. But we also cover topics ranging from basic animal or plant biology, including physiology, to animal and plant interactions with the biotic and abiotic characteristics of their environments.

The syllabus provides broad competence for careers involving the biology of animals and plants in relation to their environment, including human or veterinary medicine.

This major aligns well with Physiology or Anatomy offered through the Faculty of Health Sciences (refer to pages 87 for more information) and is an excellent first degree for continuing in the medical profession.

Careers
• Biodiversity Planner
• Biology Education
• Education Officer
• Private Consulting Firms
• Scientific Journalism
• Veterinary Research Institute

Research or related work in various institutions:
• Council for Scientific and Industrial Research (CSIR)
• Agricultural Research Council (ARC)
• Department of Water Affairs and Forestry (DWA)
• South African National Biodiversity Institute (SANBI)
• Nature conservation, museums (e.g. Ditsong NMNH)

Curriculum
First year
Introductory Life Sciences I
AND
Chemistry I
AND
Auxiliary Mathematics I
AND
Any other Level I course
Second year
Animal Form and Function II
Introduction to Animal Behaviour II
Evolution II
Reproductive Biology II
Whole Plant Physiology II
AND
Basic Statistics for the Natural Sciences II
AND
Any other Level II courses
Third year
Each major has a choice of the following courses:
• Animal Behaviour III
• Behavioural Ecology III
• Biogeography III
• Biosystematics and Evolution III
• Medical and Applied Entomology III
• Molecular Ecology III
• Palaeontology III
• Physiological Entomology III
• Plant Propagation and Conservation III
AND
one field trip course:
• Applied Freshwater Ecology and Management III
• Experimental Field Biology III
OR
one laboratory course:
• Microscopy III
• Service Learning in Biology III
Applied Bioinformatics

Bachelor of Science in the field of Biological Sciences

SBA11

Major: Applied Bioinformatics

Duration

3 years

NSC Requirements

APS

40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 5

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

- Biomechanics
- Biostatistics
- Conservation Genomics
- Data Management
- Drug Discovery
- Genomics
- Healthcare Scientist
- Molecular Modelling
- Pharmacogenomics
- Precision Medicine

Programme Description

Study how bioinformatics is used to select and describe computational results.

This programme, offered by the School of Molecular and Cell Biology, helps you to understand how bioinformatics is used in the scientific field. This includes how to select, describe, and use basic bioinformatics tools and how to interpret computational results.

You will learn the history and application of bioinformatics, as well as algorithm, pipeline and software development and analysis, and the transfer and storage/database development of genomics data. You will also explore gene expression data analysis, protein structure, functional genomics, and genome analysis. Bioinformatics is important to genetic research because the large-scale, complex data that is generated in genomics simply wouldn’t make sense without contextual knowledge of how life forms work.

Curriculum

First year

Introductory Life Sciences I

AND

Chemistry I

AND

Auxiliary Mathematics I

OR

Mathematics I (Major):

- Algebra I
- Calculus I

AND

Any other Level I course

Recommended course:
Physics I (Auxiliary)

Second year

Molecular and Cell Biology IIA: Scientific Practice

AND

Molecular and Cell Biology IIB: Concepts

AND/OR

Basic Statistics for the Natural Sciences II

AND/OR

Molecular and Cell Biology IIC: Applications for double-MCB major students

AND/OR

Any other Level II major depending on other course set

Third year

Applied Bioinformatics III

AND

Any other Level III major depending on other course set

Third year

Applied Bioinformatics III

AND

Any other Level III major depending on other course set
Biochemistry and Cell Biology

Biochemistry embraces the fascinating worlds of Molecular Biology, Biotechnology, Genetic Engineering, Immuno-Technology, Advanced Cell Biology, and Enzymology.

In Biochemistry and Cell Biology, you will study all living organisms (microbes, parasites, plants, insects, animals, and humans) at the molecular level. You will investigate the structure and biological functions of enzymes, carbohydrates, fats, proteins, and nucleic acids.

Curriculum

First year
Introductory Life Sciences I
AND
Chemistry I
AND
Auxiliary Mathematics I
AND
Any other Level I course

Second year
Molecular and Cell Biology IIA: Scientific Practice
AND
Basic Statistics for the Natural Sciences II
AND/OR
Molecular and Cell Biology IIB: Concepts
AND
Molecular and Cell Biology IIC: Applications for double-MCB major students
AND/OR
Any other Level II major depending on other course set

Third year
Biochemistry and Cell Biology III
AND
Any other Level III major depending on other course set

Programme Description

Study life forms and their functions at the molecular level.

Bachelor of Science in the field of Biological Sciences

SBA11
Majors:
Biochemistry and Cell Biology

Duration
3 years

NSC Requirements

APS
40+

English Home Language OR First Additional Language
Level 5

Mathematics
Level 5

Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35
Closing Date: 30 September

Careers

• Analytical Biochemistry
• Biomedical Scientist
• Clinical Biochemistry
• Forensic Scientist
• Healthcare Scientist
• Industrial Enzymology
• Life Science Research Scientist
• Nanotechnologist
• Personalised Medicines
• Protein Biotechnology
Genetics and Developmental Biology

Bachelor of Science in the field of Biological Sciences
SBA11
Majors: Genetics and Developmental Biology
Duration
3 years
----------------------------------------------
NSC Requirements
APS
40+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5
Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.
International Qualifications on page 35
Closing Date: 30 September
----------------------------------------------
Careers
• Clinical Research Associate
• Genetic Counselling
• Healthcare Scientist (Immunology)
• Medical Diagnostics
• Pharmacogenetics
• Plant and Animal Breeding
• Research Scientist (Life Sciences and Medical)
• Scientific and Medical Research

Programme Description

Study how genes function.

This is the era of the gene. You can sequence it. You can research how it functions. You can study how it makes an animal, plant, bacterium, or virus. You can understand how it evolves and how it can make cells cancerous. What's more, with the help of modern tools, you can now quickly and precisely edit a plant or animal genome.

See how genes are transforming biology, biotechnology, the pharmaceutical industry, and medicine.

Due to recent discoveries in genetics, the biotech field is about to undergo an explosion similar to that of the IT field in the 1980s, and you can be part of this by joining MCB Genetics. Our courses include: Gene Regulation in Eukaryotes, Molecular Genetics of Prokaryotes, Chromosomes and Gene Maps, and Advanced Animal Developmental Biology.

Curriculum
First year
Introductory Life Sciences I
AND
Chemistry I
AND
Auxiliary Mathematics I
AND
Any other Level I course
Second year
Molecular and Cell Biology IIA: Scientific Practice
AND
Molecular and Cell Biology IIB: Concepts
AND
Basic Statistics for the Natural Sciences II
AND/OR
Molecular and Cell Biology IIC: Applications for double-MCB major students
AND/OR
Any other Level II major depending on other course set
Third year
Genetics and Developmental Biology III
AND
Any other Level III major depending on other course set
Microbiology and Biological Sciences

Bachelor of Science in the field of Biological Sciences
SBA11
Majors: Microbiology and Biotechnology
Duration
3 years

NSC Requirements
APS
40+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 5

Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35
Closing Date: 30 September

Careers
• Agricultural, Medical, Environmental and Veterinary Biotechnology
• Brewing
• Industrial Biotechnology
• Food Security

Programme Description

Study microbe groups, their morphology, metabolism, genetics, and taxonomy.

Microbiology and Biotechnology is the study of small living creatures, or microbes, including bacteria, viruses, yeasts, and fungi. Our courses provide you with basic knowledge of the various microbe groups, their morphology, metabolism, genetics, and taxonomy. Microbiology and Biotechnology embrace environmental biotechnology, industrial microbiology, food and medical microbiology, and plant genetic engineering.

Curriculum
First year
Introductory Life Sciences I
AND
Chemistry I
AND
Auxiliary Mathematics I
AND
Any other Level I course depending on other course set

Second year
Molecular and Cell Biology IIA: Scientific Practice
AND
Molecular and Cell Biology IIB: Concepts
AND
Basic Statistics for the Natural Sciences II
AND/OR
Molecular and Cell Biology IIC: Applications for double-MCB major students
AND/OR
Any other Level II major depending on other course set

Third year
Microbiology and Biotechnology III
AND
Any other Level III major depending on other course set
Geographical and Archaeological Studies

Bachelor of Science in the field of Geographical and Archaeological Studies

**SBA10**

**Majors:** Geography and Archaeology

**Duration:** 3 years

---

**NSC Requirements**

**APS**

40+

**English Home Language OR**

First Additional Language

Level 5

**Mathematics**

Level 5

**Wait-listing**

Applicants with 38-39 points may be wait-listed, subject to place availability.

**International Qualifications on page 35**

**Closing Date:** 30 September

---

**Careers**

- Biodiversity Conservation
- Climate Change
- Environmental Assessment
- Ecosystem Services
- Food Security
- Geomorphology
- Hydrology
- Market Research
- Meteorology and Weather Forecasting
- Property Development
- Urban Development
- Rural Development
- Tourism Development
- Water or Aquatic Resources Management
- Contract Archaeology
- Conservation
- Environmental and Cultural Heritage

---

**Programme Description**

Study the origins of humans and the evolution of the technology we use.

South Africa’s archaeological record is particularly rich. It covers a period of over two million years, starting with the first toolmakers. Archaeology is a dynamic subject that grows with each new discovery or technological advance. As a prospective archaeologist, you will learn about the origins of humans, rock art, and the evolution of technology from the Stone Age to the present. Field work takes you to some of South Africa’s best archaeological sites.

---

**Curriculum**

**First year**

Geography I

AND

Archaeology I

AND

Auxiliary Mathematics I

OR

Mathematics I (Major)

- Algebra I
- Calculus I

Any other Level I course

**Recommended courses:**

- Chemistry I
- Geology I

**Second year**

Geography II

---

**Third year**

Geography III

Four courses from:

- Food: Security, Politics and Culture III
- Climate and Environmental Change III
- Economic Geography III
- Environmental Monitoring and Modelling III
- Geographic Information Systems and Remote Sensing III
- Theory and Practice in Sustainability Science and Sustainable Development III
- Urban Features: The Political-Economy of Population and Scarcity III
- Coastal Geomorphology III
- Advanced Atmospheric Sciences III

**AND/OR**

Archaeology III

**AND/OR**

Any other Level III major depending on other course set

**NB:** All eight Geography III courses may be taken for a double major in Geography.
**Geological Sciences**

**Bachelor of Science in the field of Geological Sciences**

SBA09

**Majors:** Geology and Applied Geology

**Duration** 3 years

---

**NSC Requirements**

**APS**

40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 6

Physical Science

Level 5

**Wait-listing**

Applicants with 38-39 points may be wait-listed, subject to place availability.

**International Qualifications** on page 35

**Closing Date:** 30 September

---

**Careers**

- Academic Researcher
- Environmental Consultant
- Geochemist
- Geologist
- Geophysics Consultant
- Gis-Remote Sensing Specialist
- Government Survey Geologist
- Heritage/Tourism Consultant
- Hydrogeologist
- Mining
- Mining Analyst
- Minerals and Oil Exploration Geologist
- Mineralist
- Palaeontologist
- Teacher

---

**Programme Description**

**Study mineral exploration and extraction.**

Geoscientists are key to South Africa and Africa’s current and future economic development and carry out important work in searching for, and extracting, economic mineral resources. Most graduates work in mines or for mineral exploration companies. An increasing number of graduates work in environmental geoscience. As a geoscientist, you must be inquisitive and passionate about the world, be prepared to travel, and enjoy working outdoors or in a mining environment. South Africa’s large mining sector provides bursary opportunities.

If you have good Mathematics and Physical Sciences marks, and take Geology II and III, you can specialise in Mining Geology through second- and third-year co-majors. The School also offers a selection of specialist courses in Advanced Earth Sciences and Applied Geology co-majors.

---

**Curriculum**

**First year**

Geology I

AND

Chemistry I

AND

Mathematics I (Major):

- Algebra I
- Calculus I

OR

Auxiliary Mathematics I (at the discretion of the Head of School)

AND

Any other Level I course

---

**Recommended courses:**

- Geography I
- Physics I (Major)
- Introductory Life Sciences I

**Second year**

Geology II

- Igneous Petrology and Processes II
- Mineralogy and Optical Mineralogy II
- Metamorphic Petrology and Processes II
- Sedimentology, Stratigraphy, and Palaeontology II

AND

Applied Geology II

- Introduction to Geochemical Techniques II
- Geological Mapping Techniques II

AND

Basic Statistics for Natural Scientists II

AND

Any other Level II major depending on other course sets

**Third year**

Geology III

- Advanced Petrology III
- Economic Geology and Ore Petrology III
- Structural Geology III
- Tectonics of the Earth III

AND

Applied Geology III

- Advanced Geological Mapping Techniques III
- Exploration Methods III
- Geographical Information Systems and Remote Sensing III
- Hydrogeology and Water Resource Management III
Bachelor of Science in the field of Actuarial Science

SBA03

Majors: Actuarial Science and Mathematical Statistics

Duration
3 years

Curriculum

First year
Actuarial Science I
AND
Mathematical Statistics I

Mathematics I (Major):
• Algebra I
• Calculus I

Economic Theory IA Microeconomics
Economic Theory IB Macroeconomics

AND
Business Accounting I

Second year
Actuarial Science II
AND
Mathematical Statistics II

Mathematics II:
• Abstract Mathematics II
• Differential Equations II
• Basic Analysis II
• Linear Algebra II
• Multivariable Calculus II
• Transition to Abstract Mathematics II

Third year
Actuarial Science III
AND
Mathematical Statistics III

Actuarial Science

An actuary is a professional who applies analytical, statistical, and mathematical skills to financial and business problems. This is especially valuable when facing problems involving uncertain future events or financial risks in insurance, retirement, investments, and risk management environments.

The School of Statistics and Actuarial Sciences offers the largest number of accredited subjects of any single university in Africa.

Careers
• Asset Management
• Banking
• Consulting
• Enterprise Risk Management
• General Insurance
• General Management
• Health Care
• Life Insurance
• Research and Planning
• Retirement Funding

Programme Description

Study the application of analytical, statistical, and mathematical skills to financial and business problems.

A Wits Actuarial Science degree gives you a solid foundation for the internationally recognised actuarial examination. Over 480 graduates have qualified as actuaries since the programme began in 1983.

English Home Language OR First Additional Language
Level 7

Mathematics
Level 7

Physical Science
Level 7

Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

NSC Requirements

APS 40+

English Home Language OR First Additional Language
Level 7

Mathematics
Level 7

Physical Science
Level 7

Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers
• Asset Management
• Banking
• Consulting
• Enterprise Risk Management
• General Insurance
• General Management
• Health Care
• Life Insurance
• Research and Planning
• Retirement Funding

Programme Description

Study the application of analytical, statistical, and mathematical skills to financial and business problems.

A Wits Actuarial Science degree gives you a solid foundation for the internationally recognised actuarial examination. Over 480 graduates have qualified as actuaries since the programme began in 1983.

An actuary is a professional who applies analytical, statistical, and mathematical skills to financial and business problems. This is especially valuable when facing problems involving uncertain future events or financial risks in insurance, retirement, investments, and risk management environments.

The School of Statistics and Actuarial Sciences offers the largest number of accredited subjects of any single university in Africa.

Careers
• Asset Management
• Banking
• Consulting
• Enterprise Risk Management
• General Insurance
• General Management
• Health Care
• Life Insurance
• Research and Planning
• Retirement Funding

Programme Description

Study the application of analytical, statistical, and mathematical skills to financial and business problems.

A Wits Actuarial Science degree gives you a solid foundation for the internationally recognised actuarial examination. Over 480 graduates have qualified as

Bachelor of Science in the field of Actuarial Science

139
Computational and Applied Mathematics

Bachelor of Science in the field of Computational and Applied Mathematics

SBA13

Major: Computational and Applied Mathematics

Duration

3 years

NSC Requirements

APS

40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 6

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

Requires postgraduate studies that lead to mathematical modelling which is applicable in medicine, economics and in the social sciences, advanced mathematics of finance and can also lead to careers in astronomy and trading.

Programme Description

Study mathematical invention to find practical solutions to real-life problems.

Applied Mathematics is important in many disciplines, The School also teaches engineers, architects, building scientists, town planners, commerce students, and medical and health science students.

Curriculum

First year

Computational and Applied Mathematics I

AND

Mathematics I (Major):

• Algebra I

• Calculus I

AND

Any two other Level I courses

Recommended courses:

Computer Science I:

• Discrete Computational Structures I

• Introduction to Algorithms and Programming I

• Introduction to Data Structures and Algorithms I

• Basic Computer Organisation I

Physics I (Major)

Second year

Computational and Applied Mathematics II

AND

Mathematics II:

• Abstract Mathematics II

• Basic Analysis II

• Introduction to Mathematical Statistics II

• Linear Algebra II

• Multivariable Calculus II

• Transition to Abstract Mathematics II

AND

Any other Level II major depending on other course sets

Third year

Computational and Applied Mathematics III

AND

Any other Level III major depending on other course sets
Computer Science

Bachelor of Science in the field of Computer Science

SBA13

Majors: Computer Science and Computational Applications

Duration
3 years

NSC Requirements

APS 40+

English Home Language OR First Additional Language

Level 5

Mathematics Level 6

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

• Advertising
• Game Design
• Software Development
• Software And System Architects
• Teaching
• Research
• Robotics

Programme Description

Study the many ways in which computers can be used in problem-solving.

Computer Science is the discipline of solving problems via solutions

that are implemented on computers. These problems can arise from a variety of areas, such as commerce, finance, mining, science, engineering, mathematics, music, and entertainment. To be a successful Computer Science student, you will need to be creative and have good critical thinking skills, analytical ability, and mathematical ability.

The undergraduate Computer Science curriculum teaches you the fundamental mathematical and scientific principles behind Computer Science, as well as the practical skills required. You will be taught how to design and implement programs, and how to analyse them for correctness and efficiency. You will also take courses in computer networks, database systems, operating systems, artificial intelligence, formal languages, software design, and data structures.

Curriculum

First year

Computer Science I:
• Basic Computer Organisation I
• Discrete Computational Structures I
• Introduction to Algorithms and Programming I
• Introduction to Data Structures and Algorithms I

AND

Mathematics I (Major):
• Algebra I
• Calculus I

AND

Computational and Applied Mathematics I

AND

Any other Level I course

Second year

Computer Science II:
• Analysis of Algorithms II
• Computer Networks II
• Database Fundamentals II
• Mobile Computing II

AND

Mathematics II:
• Abstract Mathematics II
• Basic Analysis II
• Introduction to Mathematical Statistics II
• Linear Algebra II
• Multivariable Calculus II
• Transition to Abstract Mathematics II

AND

Computational and Applied Mathematics II

Third year

Computer Science III:
• Analysis of Advanced Algorithms III
• Formal Languages and Automata III
• Software Design III or Software Engineering III
• Operating Systems and System Programming III

AND

Computational Applications III:
• Computer Graphics and Visualisation III
• Machine Learning III
• Parallel Computing III
• Software Design Project III
Bachelor of Science in the field of Mathematics

SBA13

Major: Mathematics

Duration

3 years

-------------------------------

NSC Requirements

APS 40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 6

-------------------------------

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

-------------------------------

Careers

Most of our graduates work in the financial sector, in mathematical finance and in the building of mathematical/statistical models of market and consumer behaviour.

Programme Description

Study the quantitative and logic structure that underpins many important fields of study.

Mathematics is the quantitative and logic structure that forms the basis of all analytical science, modern economics, and finance.

You will take major stream Mathematics courses if you require Mathematics as a tool in other disciplines, or you intend to specialise in Mathematical Sciences or associated subjects, such as Mathematical Physics and Theoretical Physics.

Curriculum

First year

Mathematics I:

• Algebra I
• Calculus I

AND

Any three other Level I courses

Recommended courses:

Computer Science I:

• Basic Computer Organisation I
• Discrete Computational Structures I
• Introduction to Algorithms and Programming I

• Introduction to Data Structures and Algorithms I

Computational and Applied Mathematics I

Economics IA Microeconomics

Economics IB Macroeconomics

Physics I (Major)

Second year

Mathematics II:

• Abstract Mathematics II
• Basic Analysis II
• Linear Algebra II
• Multivariable Calculus II
• Differential Equations II

OR

• Introduction to Mathematical Statistics II
• Transition to Abstract Mathematics II

AND

Any two other Level II majors depending on other course set

Third year

Mathematics III:

• Number Theory III

OR

• Topology III
• Group Theory III
• Intermediate Analysis III
• Real Analysis III

OR

• Leontief Systems III
• Coding and Cryptography III

OR

• Differential Geometry III
• Complex Analysis III

-------------------------------
Mathematics of Finance

Bachelor of Science in the field of Mathematics of Finance

SBA16

Majors: Investment and Corporate Finance OR Economics, Computational and Applied Mathematics OR Computer Science OR Mathematics

Duration 3 years

NSC Requirements

APS 42+
English Home Language OR First Additional Language Level 5
Mathematics Level 6
Wait-listing
Applicants with 40-41 points may be wait-listed subject to place availability.

International Qualifications on page 35
Closing Date: 30 September

Careers

Depending on courses taken:
• Economist • Financial Mathematician • Financial Systems Developer • Investment Strategist • Quantitative Analyst • Quantitative Trader • Risk and Investment Consultant

Programme Description

Study financial environments.

This programme consists of one major in a computational or mathematical field, like Applied Mathematics, Mathematics or Computer Science, and one major in a financial or economic field, like Economics or Corporate Finance and Investments. Students also complete a single year in Business Accounting. You can take postgraduate studies in any related field, which broadens your career options. As a graduate of this programme, you will be financially, mathematically, and computationally literate. You will typically work as a quantitative analyst, risk or portfolio manager, financial engineer, or back-end programmer in environments requiring computational skills and an understanding of financial environments. These include banks, investment houses, and other corporate entities.

Curriculum

First year

Economic Theory IA Microeconomics Economic Theory IB Macroeconomics
AND
Computer Science I:
• Basic Computer Organisation I
• Discrete Computational Structures I
• Introduction to Algorithms and Programming I
• Introduction to Data Structures and Algorithms I
AND
Computational and Applied Mathematics I
AND
Mathematics I (Major):
• Algebra I
• Calculus I

Second year

Mathematics II :
• Abstract Mathematics II
• Basic Analysis II
• Linear Algebra II
• Multivariable Calculus II
• Transition to Abstract Mathematics II
• Introduction to Mathematical Statistics II
AND
Economics IIA and IIB
OR
Investments II
Corporate Finance II
AND
Computer Science II:
• Analysis of Algorithms II
• Computer Networks II
• Database Fundamentals II
• Operating Systems II
OR
Computational and Applied Mathematics II
Third year

Economics III
OR
Business of Finance III
AND
Computational and Applied Mathematics III
OR
Computer Science III:
• Analysis of Advanced Algorithms III
• Formal Languages and Automata III
• Machine Learning III
• Software Design III
OR
Software Engineering III
OR
• Mathematics III:
• Number Theory III
OR
• Topology III
• Group Theory III
• Intermediate Analysis III
• Real Analysis III
OR
• Leontief Systems III
• Coding and Cryptography III
OR
• Differential Geometry III
• Complex analysis II
Mathematical Sciences

Bachelor of Science in the field of Mathematical Sciences

SBA08

Majors: Mathematics and Statistics

Duration
3 years

NSC Requirements

APS
40+

English Home Language OR First Additional Language
Level 7

Mathematics
Level 7

Physical Science
Level 7

Wait-listing
Applicants with 38-39 points may be wait-listed subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

• Advanced Mathematics of Finance
• Banking
• Statistician

Programme Description

Study statistics and computations, and develop problem-solving skills.

The Mathematical Sciences curriculum will develop your problem-solving skills, combining statistical and computational aspects. These high-Level skills can be applied in high-performance computing, robotics, operations research, and many other areas.

Theoretical and practical skills are necessary in Mathematical Sciences when pushing the boundaries of technological development.

Curriculum

First year
Mathematics I (Major):
• Algebra I
• Calculus I
AND
Computational and Applied Mathematics I
AND
Mathematical Statistics I
AND
Additional courses yielding a minimum of 54 Level I credits

Second year
Mathematics II:
• Basic Analysis II
• Abstract Mathematics II
• Differential Equations II
• Multivariable Calculus II
• Linear Algebra II
• Transition to Abstract Mathematics II
AND
Computational and Applied Mathematics II
AND
Mathematical Statistics II

Third year
Mathematical Statistics III
AND
Computational and Applied Mathematics III
OR
Mathematics III:
• Number Theory III
OR
Topology III
Group Theory III
Intermediate Analysis
Real Analysis III
OR
Leontief Systems III
OR
Coding and Cryptography III
OR
Complex Analysis III
Chemistry

Bachelor of Science in the field of Physical Sciences (Chemistry)

SBA12

Majors:
Chemistry and Applied Chemistry

Duration
3 years

NSC Requirements

APS
40+

English Home Language OR
First Additional Language
Level 5

Mathematics
Level 6

Physical Science
Level 5

Wait-listing
Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

• Administrators
• Agricultural Research
• Applied Chemical Research
• Biotechnology
• Chemical Analysis
• Chemical Services
• Consultants
• Environmental Research
• Food and Drink Technology
• Forensic Science
• Forestry Research
• Hazardous Waste Management
• Materials Research
• Medical Research
• Patents
• Pesticides Industry
• Petrochemical Industry
• Personal Care Chemistry
• Sales of Scientific Equipment
• Science Publishing
• Science Teacher
• Textile Chemistry
• Water Treatment and Analysis
• Quality Control and Management

Programme Description

Study the structure, composition, behaviour, and energetics of substances.

Chemistry is known as the central science because it lies between Physics and Mathematics on the one hand, and Biological and Earth Sciences on the other. It is concerned with matter and how it changes. As a chemist, you will study the structure, composition, behaviour, and energetics of substances. You will explore what happens when atoms and molecules react, and try to understand the underlying changes that occur. You will observe phenomena in the world around us, and your discoveries could impact our everyday lives.

Chemistry trains you to think logically, analytically, and creatively. Basic Chemistry skills have applications in patent law, commerce, management and teaching, drawing on the language of Mathematics and the laws of Physics to describe the world from a chemical, biological, and physical point of view. Chemistry plays a vital part in our understanding of the structure and interactions of matter in the universe.

Curriculum

First year
Chemistry I
AND
Mathematics I (Major):
• Algebra I
• Calculus I
OR
Auxiliary Mathematics I
AND
Any 2 other Level I courses

Recommended courses:
Introductory Life Science I
Physics I
OR
Physics I (Auxiliary)

Second year
Chemistry IIA
Chemistry IIB
AND/OR
Any other Level II course depending on other course set

Third year
Chemistry IIIA
Chemistry IIIB
AND/OR
Any other Level III course depending on other course set
Bachelor of Science in the field of Chemistry with Chemical Engineering

SBA04

Majors: Applied Chemistry and Chemistry

Duration
3 years

---------------------------------

NSC Requirements

APS 43+
English Home Language OR First Additional Language
Level 5
Mathematics
Level 6
Physical Science
Level 6
Wait-listing
Applicants with 40–42 points may be wait-listed, subject to place availability.
International Qualifications on page 35
Closing Date: 30 September

---------------------------------

Careers

• Administrators
• Agricultural Research
• Applied Chemical Research
• Biotechnology
• Chemical Analysis
• Chemical Services
• Consultants
• Environmental Research
• Food and Drink Technology
• Forensic Science
• Forestry Research
• Hazardous Waste Management
• Medical Research

• Patents
• Pesticides Industry
• Petrochemical Industry
• Personal Care Chemistry
• Sales of Scientific Equipment
• Science Publishing
• Science Teacher
• Textile Chemistry
• Water Treatment and Analysis
• Quality Control and Management

Programme Description

Study industrial chemical processes for the production of important materials.

Chemical engineers combine the disciplines of Chemistry and Physics, expressed in mathematical language, with concepts such as course operations and reaction kinetics, to develop industrial chemical processes.

As a chemical engineer, you will build on the findings of the research chemist, who works with small amounts of materials in the laboratory. You will be concerned with the design, construction, operation, and marketing of equipment that can reproduce the processes or products developed by chemists on a large scale. These include materials needed for specialist applications in the aerospace, automotive, biomedical, and electronics industries. You might also work in biotechnology, designing bioreactors for plant cultures, or using bacteria to extract minerals from their ores, or in electronics, where you will conduct research on the synthesis of micro–electronic components.

Curriculum

First year
Chemistry I

AND
Mathematics I (Major):
• Algebra I
• Calculus I
AND
Physics I (Major)
AND
Engineering Analysis and Design IA and IB
AND
Any one course from the list below:
• Elementary Sesotho Language and Culture IA
• Elementary IsiZulu Language and Culture IA
• The International Relations of South Africa and Africa I
• Introduction to Political Studies
• Southern Africa in the Era of Globalisation I
• Identity and Society I

Second year
AND
Electrical Engineering
AND
Mathematics II (Engineering)
AND
Chemistry IIA and IIB
AND
Process Engineering Fundamentals IIA
AND
Economic Concepts IA

Third year
Applied Chemistry IIA and IIB
AND
Chemistry IIA and IIB
AND
Process Engineering Fundamentals IIB
Astronomy and Astrophysics

Bachelor of Sciences in the field of Astronomy and Astrophysics
SBA15
Duration
3 years
Majors: Physics and Astrophysics

---

NSC Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>APS</td>
<td>43+</td>
</tr>
<tr>
<td>English Home Language</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science</td>
<td>6</td>
</tr>
</tbody>
</table>

Wait-listing
Applicants with 40-42 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

---

Careers

• Astrophysicist
• Physicist

Programme Description

Study astronomical data and understand how the universe works.

Astrophysicists interpret astronomical data gathered by astronomers to understand how our universe works. Astronomers view the entire electromagnetic spectrum – called “Multi-Frequency Astronomy” – through optical telescopes, radio telescopes, microwaves, gamma-rays, and X-rays.

An exciting career awaits you in Astronomy and Astrophysics in South Africa, which was awarded the Square Kilometre Array (SKA) project.

This comprises a core of radio telescopes in the Karoo, and is one of many projects supported by our own South African Large Telescope (SALT), an optical telescope sited at Sutherland.

Curriculum

First year
Physics I (Major)

AND
Mathematics I (Major):
• Algebra I
• Calculus I

AND
Computational and Applied Astronomy and Astrophysics

Mathematics I
AND
Astrophysics:
• Introduction to Astronomy I
• Modern Astrophysics I

Second year
Physics II:
• Physics IIA (Major)
• Physics IIB (Major)
AND
Mathematics II:
• Multivariable Calculus II
• Introduction to Mathematical Statistics II
• Linear Algebra II
AND
Computational and Applied Mathematics II

AND
Cosmology: The Origin and Evolution of the Universe

Third year
Physics III:
• Quantum Mechanics III
• Applications of Quantum Mechanics III
• Statistical Physics III
• Waves and Modern Optics III
• Advanced Experimental Physics and Project III

Astrophysics III:
• Relativity: The Basis of Cosmology and Astrophysics III
• Advanced Astrophysics III
• Modern Radio and Gamma-ray Astronomy III
Bachelor of Science in the field of Nuclear Science and Engineering

SBA05
Major: Physics
Duration
3 years

NSC Requirements
APS 43+
English Home Language OR
First Additional Language
Level 5
Mathematics Level 6
Physical Science Level 6

Wait-listing
Applicants with 40-42 points may be wait-listed, subject to place availability.

International Qualifications on page 35
Closing Date: 30 September

Programme Description

Study environmental issues and find solutions to the energy crisis.

The availability of energy fuels and environmental issues are two of the biggest challenges facing humanity today because of the ever-increasing usage of those fuels and the resulting impact on climate and the environment.

Knowledge and understanding of basic physics and, in particular, nuclear physics, is a prerequisite to working in the nuclear industry. Nuclear engineering requires a firm grasp of the physical principles required for a successful reactor design.

After completing three years of studies, you can study for a fourth year in Physics, to complete a BSc (Hons) Physics. Alternatively, you can enter the third year of a four-year BSc (Eng) degree in either Mechanical or Industrial Engineering to eventually complete a degree in Engineering and register as a professional engineer.

Curriculum
First year
Physics I (Major)
AND
Mathematics I (Major):
• Algebra I
• Calculus I
AND
Applied Physics
AND
Introduction to the Engineering Profession I
AND
Engineering Analysis and Design IA and IB
AND
Engineering Chemistry

Careers
Examples of organisations in South Africa that employ physicists and engineers with a nuclear sciences specialty are Eskom, Nuclear Energy Corporation of South Africa (Necsa), National Nuclear Regulator (NNR) and large construction companies such as Murray and Roberts. With the unprecedented growth in nuclear industry in South Africa there is an urgent and sustained need for suitably qualified physicists and engineers.
Physics

Bachelor of Science in the field of Physical Sciences (Physics)

SBA12

Major: Physics

Duration

3 years

NSC Requirements

APS

40+

English Home Language OR First Additional Language

Level 5

Mathematics

Level 6

Physical Science

Level 5

Wait-listing

Applicants with 38-39 points may be wait-listed, subject to place availability.

International Qualifications on page 35

Closing Date: 30 September

Careers

- Communications
- Consultants and Administrators
- Education
- Environmental Science
- Law
- Physics Research
- Project Managers
- Software Engineers

Programme Description

Study analytical and problem-solving skills in an increasingly technological society.

A degree in Physics equips you with analytical and problem-solving skills, which are in high demand. These skills also offer a background for understanding an increasingly technological society. Additionally, the course will equip you with experience for life-long learning in a rapidly changing world; mathematical skills that can be applied in many environments; and computational skills that are marketable in many sectors of the economy.

Curriculum

First year

Physics I (Major)

AND

Mathematics I (Major):
- Algebra I
- Calculus I

AND

Chemistry I

AND

Any other Level I course

Second year

Physics II:
- Physics IIA and IIB

AND

Mathematics II:
- Abstract Mathematics II
- Differential Equations II
- Basic Analysis II
- Linear Algebra II
- Multivariable Calculus II
- Transition to Abstract Mathematics II

AND

Any other Level II course depending on other course set

Third year

Physics III:
- Advanced Experimental Physics and Project III
- Statistical Physics III
- Quantum Mechanics III
- Waves and Modern Optics III
- Applications of Quantum Mechanics III

OR

Introduction to Geophysics

AND

Any other Level III course depending on other course set
Part-Time Degrees

The Wits Plus Centre offers quality undergraduate degrees, both part-time and after hours, on campus.

Manage your studies, career development, and working life with Wits.

When to apply

Applications for 2020 study open on 1 August 2019

What Wits Plus offers:

• Top lecturers
• Multiple teaching methods
• Extended, flexible study periods
• Smaller classes
• Better opportunities for peer interaction and networking
• Access to a 30-seat computer laboratory

Conditions

• Part-time students do not qualify for NSFAS support or residence accommodation.
• Students are liable for their fees, books, and accommodation.
• Foreign applicants need a work permit to study through Wits Plus.

What you can study

Bachelor of Arts (BA)

A Bachelor of Arts teaches you how to think critically about problems, exposes you to new ideas, and stimulates creative thinking.

You can major in two of the following subjects:

• International Relations
• Political Studies
• Psychology (Clinical and Industrial courses)
• Sociology
• English

You can also combine a major from the Bachelor of Commerce disciplines – like HR, Management, or Marketing – with a Social Sciences BA major.

Bachelor of Commerce (BCom)

The Wits Bachelor of Commerce is internationally recognised, and our graduates are highly sought-after by corporates.

A BCom helps you to build business knowledge and critical thinking skills.

Choose from the following subjects:

• Accounting
• Auditing
• Economics
• Corporate Finance and Investment
• Management Accounting
• Management
• Human Resource Management
• Insurance and Risk Management

• Marketing
• Taxation BCom / BA with Law

BA with Law

This degree offers all the benefits of a BA and includes advanced study of law.

BCom with Law

A BCom with Law is ideal for students who are interested in both business and law.

Engineering (BSc)

This degree covers the following engineering disciplines:

• Aeronautical
• Chemical
• Civil
• Electrical
• Industrial
• Mechanical
• Metallurgy
• Mining

Computer Science (BSc)

The Wits BSc in Computer Science teaches the fundamental mathematical and scientific principles behind computer science. Students will be taught how to design and implement programmes and how to analyse them to determine their correctness and efficiency.

For more information, please visit www.wits.ac.za/part-time/
## List of Acronyms

### Commerce, Law and Management
- **ACCA** – Association of Chartered Certified Accountants
- **BAccSc** – Bachelor of Accounting Science
- **BCom** – Bachelor of Commerce
- **BCom(PPE)** – Bachelor of Politics, Philosophy and Economics
- **BEconSc** – Bachelor of Economic Science
- **CFA** – Chartered financial analyst
- **CIA** – Certified internal auditor
- **CIMA** – Chartered Institute of Management Accountants
- **HDipAcc** – Higher Diploma in Accounting
- **HRM** – Human resource management
- **IFAC** – International Federation of Accountants
- **IPO** – Initial Public Offering
- **IS** – Information systems
- **IT** – Information technology
- **LLB** – BCom Law
- **PAAB** – Public Accountants and Auditors Board

### Engineering and the Built Environment
- **SAIPA** – South African Institute for Professional Accountants
- **UI** – User interface
- **UX** – User experience

### Science
- **ARC** – Agricultural Research Council
- **DWA** – Department of Water Affairs and Forestry
- **NNR** – National Nuclear Regulator
- **SAEON** – South African Environmental Observation Network
- **SANBI** – South African National Biodiversity Institute

### Humanities
- **BEd** – Bachelor of Education
- **NBT** – National Benchmark Test
- **PGCE** – Postgraduate Certificate in Education
- **SACE** – South African Council of Educators

### Health Sciences
- **BDS** – Bachelor of Dental Science

### Other
- **BHFSc** – Bachelor of Health Sciences
- **GEMP** – Graduate Entry Medical Programme
- **HPCSA** – Health Professions Council of South Africa
- **MBBBCh** – Medicine and Bachelor of Surgery
- **NGO** – Non-governmental organisation
- **STEPPS** – Screening and Testing Programme for Pharmacy Students
- **WAPT** – Wits Additional Placement Test
Useful Contacts

1 Jan Smuts Avenue
Braamfontein 2000
Johannesburg, South Africa
Private Box 3
WITS 2050
www.wits.ac.za/
+27 (0)11 717 1000

Student Enrolment Centre (SEnC)
for Undergraduate Admissions
+27 (0)11 717 1888
www.wits.ac.za/askwits/

Student Life
enquiries.studentaffairs@wits.ac.za

Residence Life
accommodation@residence.wits.ac.za

Fees, Financial Aid and Scholarships
+27 (0)11 717 1531/1081
info.finaid@wits.ac.za

Wits Sport
+27(0)11 717 9409

International Students
+27(0)11 717 1054/5
studysa.international@wits.ac.za

Part-time Degrees
(undergraduate students only)
+27 (0)11 717/9500/9501/9505
wits.plus.marketing@wits.ac.za

Protection Services
+27 (0)11 717 4444/6666

Faculties
(Undergraduate General Enquiries)
Commerce, Law and Management
+27 (0)11 717 8001/8174

Engineering and the Built Environment
+27 (0)11 717 7007/2/3/4/6

Health Sciences
+27 (0)11 717 2545

Humanities
+27 (0)11 717 4004/5/13/18/8203

Science
+27 (0)11 717 6000