Health Sciences

Our research impacts directly on improving and saving lives of people every day.

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The Bachelor of Health Sciences (BHSc)

The entry-level Bachelor of Health Sciences degree has a scientific and global health emphasis. The undergraduate qualification meets the needs of a number of health-related industries, including biotechnology, forensic science, health service and hospital management, health policy and economics, insurance and medical aid, medical science and research, the pharmaceutical industry, and sport and fitness.

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

Bachelor of Health Sciences in the field of Biokinetics

MBA05

Duration
3 years

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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.

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Closing Date: 30 June

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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

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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

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Careers

- Biomedical Scientist
- Forensic Scientist
- Healthcare Scientist
- Medical Sales Representative
- Microbiologist
- Research Scientist
- Science Journalist/Writer
**Health Systems Sciences**

**Bachelor of Health Sciences in the field of Health Systems Sciences**

**MBA05**

**Duration**

3 years

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**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

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**Closing Date:** 30 June

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**New and exciting career opportunities in:**

- Epidemiology
- Health Systems Management
- Public Health

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**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

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**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.

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**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
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.

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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 (HPCSA).

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
Bachelor of Medicine and Bachelor of Surgery

MFA00

Duration 4-6 years

NSC Requirements

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

No application to second year will be considered. Applicants who are currently studying or who have studied at a tertiary institution are advised to complete their studies and then apply for admission to the GEMP.

Do you already have a degree?
The GEMP offers an entry point into the third year of the MBBCh degree at Wits for suitably qualified graduates who want to become doctors. Years 3 to 6 of the MBBCh programme cover integrated multidisciplinary and clinical courses. As each year of study is compulsory, no student may be admitted into the programme after the third year.

For more information, visit:
www.wits.ac.za/health/gemp/

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Closing Date: 30 June

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

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.

Programme Description

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
Nursing

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:

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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.

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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

Bachelor of Nursing
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
Without this certificate, you will not be considered for admission to the programme.
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Closing Date: 30 June

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.

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.

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
Science of Occupation II
Medicine and Surgery for Occupational Therapy
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
Oral Health Sciences

Bachelor of Oral Health Sciences

MBA04

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.

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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.

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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

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; continually 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

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
- Special Undergraduate Research Project
- Clinical Pharmacy III
- Pharmacy Practice III
- Pharmacology II
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.

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

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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
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
Physiotherapy I
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 for 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

<table>
<thead>
<tr>
<th>Benchmark Performance Levels</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
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<tr>
<td>Academic Literacy</td>
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<tr>
<td>Basic</td>
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</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.