2014 Entry

Stellenbosch University Admission Requirements for Undergraduate Programmes
Make a start

Choose a programme – first and second choice.
(See www.maties.com or www.gostudy.mobi.)

Take note of closing dates for applying.

Apply for admission:
• Do e-application at www.maties.com.
• Or get a paper form at 021 808 9111.

what then?
• We give you a unique student number.
• We send you information about the National Benchmark Tests (NBTs).

Book for and write the NBTs according to your programme choices.

Attend our Open Day on Friday 2 August 2013
from 9:00 to 16:30 at the Langenhoven Student Centre (the Neelsie).

Get your computer ready.
• Read about our laptop initiative and see specifications for private computers at blogs.sun.ac.za/it/support under “IT-help for students”.
• Have your computer registered for our network at the IT Student Help Centre, 7 Joubert Street, Stellenbosch, early in January.

Attend our big Welcoming Week!
All our programmes are selection programmes, because large numbers of prospective students apply for them. Unfortunately we can accept only a limited number of students. Therefore, even though you may meet the minimum admission requirements of a programme, you are not guaranteed admission to the programme of your choice.

Get your student number - apply electronically at www.maties.com under “Apply” and “Apply online” or request an application form at:
- Client Service Centre (contact details above)
- Address: Admissions, Stellenbosch University, Private Bag X1, MATIELAND 7602

**CLOSING DATES FOR APPLICATIONS**
- Programmes in Medicine and Health Sciences: 31 May
- Programmes in Law, Education and Engineering, as well as BA (Sport Science) and BSc (Sport Science): 30 June
- For BA (Drama), BA (Music), BMus and BA (Visual Arts): See under the programmes further on
- All other programmes: 30 June, with acceptance of late applications until 30 September, provided that the University reserve the right to close late applications for any programme at any time prior to 30 September
- For accommodation in a residence: 30 June

**ADMISSION REQUIREMENTS FOR UNIVERSITY STUDY**
- A National Senior Certificate (NSC) as certified by Umalusi with admission to bachelor’s degree studies
- A level of at least 4 (50%) in each of four subjects designated for university admission*
- Write the National Benchmark Tests (NBTs) according to your chosen programme
- See further requirements under programmes

(For the requirements according to the old matriculation curriculum until 2007, contact our Client Service Centre.)

**LEVEL OF PERFORMANCE FOR SCHOOL SUBJECTS**

<table>
<thead>
<tr>
<th>Level</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>40-49</td>
<td>50-59</td>
<td>60-69</td>
<td>70-79</td>
<td>80-100</td>
</tr>
</tbody>
</table>

* **Subjects for university admission:** Accounting, Agricultural Sciences, Business Studies, Consumer Studies, Dramatic Arts, Economics, Engineering Graphics and Design, Geography, History, Information Technology, Languages (one language of learning and teaching at a higher education institution and two other recognised language subjects), Life Sciences, Mathematics, Mathematical Literacy, Music, Physical Sciences, Religion Studies, Visual Arts.

**NATIONAL BENCHMARK TESTS (NBTs)**

All prospective students who want to register at Stellenbosch for their first year must take NBTs. The NBTs consist of two tests, the AQL and the MAT. Please book your place at a centre near you in good time.

<table>
<thead>
<tr>
<th>Test</th>
<th>AQL</th>
<th>MAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is measured?</td>
<td>Academic and quantitative literacy</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Who writes it?</td>
<td>Candidates for all programmes</td>
<td>Candidates only for programmes requiring Mathematics</td>
</tr>
<tr>
<td>When and (writing time)?</td>
<td>Morning session report at 7:30 (3 hours and 5 minutes)</td>
<td>Afternoon session same day (3 hours)</td>
</tr>
<tr>
<td>Cost?</td>
<td>R110</td>
<td>R85</td>
</tr>
</tbody>
</table>

**BOOK LIKE THIS**

With a computer:
- On www.nbt.ac.za, click on “Register to write”.
- Follow instructions and “Submit”.
- Download the letter (with EasyPay barcode) confirming your registration and print.

With a cell phone:
- Go to www.nbt.ac.za as you would MXit or Facebook.
- Supply your e-mail address and the letter will be sent to you for printing later; or when you have access to a computer go to www.nbt.ac.za again and sign in with your ID No. and print the letter.

**PAY LIKE THIS**

Take your NBT registration letter to an EasyPay pay point near you to pay the testing fees. You may also
pay on the EasyPay website, www.easypay.co.za, and print out your receipt.

**BRING TO THE TEST SESSION:**
- your ID book, passport, or certified receipt of application for a South African ID;
- your registration letter and EasyPay receipt of payment of test fees;
- two HB pencils, eraser and pencil sharpener; and
- lunch if you’re going to write both sessions.
(No calculators, rulers or dictionaries will be allowed.)

**WHEN AND WHERE?**
Website: www.nbt.ac.za
NBT Call Centre: 021 650 3523

---

**ACADEMIC SUPPORT THROUGH EDPs**

The extended degree programmes (EDPs) are programmes of full status that provide an alternative route to academic success. EDPs are offered in the following faculties: AgriSciences, Arts and Social Sciences, Economic and Management Sciences, Engineering, Medicine and Health Sciences, Science, and Theology. Each faculty has its own admission requirements for its EDPs. When you apply for admission to the University, your faculty will let you know whether you qualify for an EDP. Usually candidates whose NSC results just fall short of the admission requirements or selection criteria may qualify for the EDP.

Website:
stbweb02.stb.sun.ac.za/ctl/extended_degree.html

---

**CENTRE FOR PROSPECTIVE STUDENTS**

The Centre offers support to prospective students. We visit schools, do career expos and are available to meet you and your parents on campus for an advising session.

**STUDY OR VOCATIONAL GUIDANCE**

Do you have difficulty deciding on your subjects, study programme or career? Feel free to make an appointment for a subject or career assessment with one of our psychologists. Tel.: 021 808 4709

**OPEN DAY**

Friday 2 August 2013 from 9:00 to 16:30 at the Langenhoven Student Centre (the Neelsie).

Address: Centre for Prospective Students, Stellenbosch University, 45 Victoria Street OR Private Bag X1, MATIELAND 7602

Website: www.maties.com

---

**NEW! BENEFITS FOR PRIVATE STUDENTS**

Students who live off-campus are members of the Private Students’ Organisation (PSO). The PSO wards are grouped with residences in clusters. Each cluster will have its own hub, a facility on campus where private students can enjoy the same benefits as residence students. The first hub, amaMaties, is already in use. Two more should be ready by 2014.

Website: www.maties.com under “Accommodation” and “Private accommodation”

Candidates who applied for residence accommodation can see if a place has been reserved for them under “Apply” and “Status of application”.

---

**WEB BURSARIES AND LOANS**

Stellenbosch University offers various bursaries: merit bursaries, sports bursaries, bursaries for studies in specific faculties or departments, general bursaries and bursary loans for needy students. See Calendar Part 2 at www.sun.ac.za/university/jaarboek/. Apply online once you have your student number.

**ENQUIRIES AND APPLICATION FORMS**

For more information, contact the Client Service Centre.
Address: Head: Undergraduate Bursaries and Loans, Stellenbosch University, Private Bag X1, MATIE-LAND 7602
Website: www.maties.com under “Bursaries and Loans”

---

**TUITION FEES**

For more information, contact the Client Service Centre.
Website: www.maties.com under “Fees”

---

**ACCOMMODATION**

The same prescribed application form is used for applications for admission to a programme and to accommodation in a University residence. The closing date for applications for accommodation is 30 June of the year before the accommodation is needed.

---

**WELCOMING PROGRAMME**

After you have received provisional admission to the study programme for which you applied, the University will provide you with details about when you should report at Stellenbosch for the Welcoming Programme (compulsory), and how to register as a student. This information will be sent to you from October.

The University has the right to adjust the information in this brochure at any time and as the need may arise. This information may therefore be incomplete or out of date. The information for 2014 is given here as accurately and fully as, to the best of our knowledge, was possible at the time of going to press. Verifying the given information remains the responsibility of the prospective student. The latest information is available on www.maties.com and at the telephone numbers above.
### Programmes

<table>
<thead>
<tr>
<th>Programme</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agricultural Production and Management</strong></td>
<td>Write the NBTs AQL and MAT</td>
<td>General agricultural manager, agricultural production manager, winemaker, cellar manager, agricultural extension officer and careers in agritourism, research, training and education. More information on 021 808 5451.</td>
</tr>
<tr>
<td>BS Agric in Agricultural Production and Management: Elsenburg</td>
<td>- For the NSC an aggregate of at least 55% (excluding Life Orientation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Afrikaans or English (Home Language or First Additional Language) 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Mathematics 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Physical Sciences 4 OR Physical Sciences 3 and Life Sciences 4 OR Physical Sciences 3 and Agricultural Sciences 6</td>
<td></td>
</tr>
<tr>
<td><strong>Animal Production Systems</strong></td>
<td>Write the NBTs AQL and MAT</td>
<td>Consultant, entrepreneur, manager, technician, extension officer, production development manager in animal sciences or in related industries (such as animal nutrition, meat science, animal reproduction, animal physiology and animal breeding), or in the aquaculture industry, stock-farmer or even game farmer.</td>
</tr>
<tr>
<td>BS Agric in Animal Production Systems</td>
<td>- For the NSC an aggregate of at least 55% (excluding Life Orientation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Afrikaans or English (Home Language or First Additional Language) 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Mathematics 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Physical Sciences 4 OR Physical Sciences 3 and Life Sciences 4 OR Physical Sciences 3 and Agricultural Sciences 6</td>
<td></td>
</tr>
<tr>
<td><strong>Conservation Ecology</strong></td>
<td>Write the NBTs AQL and MAT</td>
<td>Careers in environmental impact monitoring and assessment, restoration ecology, conservation biology, game farm management, ecotourism, sustainable agriculture, forestry and organic plant management, community-based natural resource management and research into conservation ecology.</td>
</tr>
<tr>
<td>BS in Conservation Ecology</td>
<td>- For the NSC an aggregate of at least 55% (excluding Life Orientation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Afrikaans or English (Home Language or First Additional Language) 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Mathematics 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Physical Sciences 4 OR Physical Sciences 3 and Life Sciences 4 OR Physical Sciences 3 and Agricultural Sciences 6</td>
<td></td>
</tr>
</tbody>
</table>
FOOD AND WINE PRODUCTION SYSTEMS
**BSc IN FOOD SCIENCE**
4 years
**Fields of study:**
- Food science with biochemistry
- Food science with chemistry

**BScAgriC IN VITICULTURE AND OENOLOGY OR IN OENOLOGY (SPECIALIZATION)**
4 years
**Fields of study:**
- Viticulture and oenology general
- Oenology specialised

- Write the NBTs AQL and MAT
- For the NSC an aggregate of at least 55% (excluding Life Orientation)
- Afrikaans or English (Home Language or First Additional Language) 4
- Mathematics 4
- Physical Sciences 4 OR
  - Physical Sciences 3 and Life Sciences 4 OR
  - Physical Sciences 3 and Agricultural Sciences 6

**BSc Food Sc:** Food scientists can be employed to do quality assurance, product development, research, technical support, sales, purchasing and production management in the food industries.

**BScAgriC:** Winemaker, viticulturist, researcher, production manager, marketer, technician, consultant or entrepreneur in wine-related industries.

FORESTRY AND WOOD SCIENCES
**BSc IN FORESTRY (BScFor)**
4 years
**Fields of study:**
- Forest and natural resources sciences
- Wood and wood products sciences

- Write the NBTs AQL and MAT
- For the NSC an aggregate of at least 55% (excluding Life Orientation)
- Afrikaans or English (Home Language or First Additional Language) 4
- Mathematics 4
- Physical Sciences 4 OR
  - Physical Sciences 3 and Life Sciences 4 OR
  - Physical Sciences 3 and Agricultural Sciences 6

Forest and natural resources sciences: Work as forest manager, timber grower, environmental planner, forester, plantation manager, logistics manager, tree breeder, rural development advisor, forest scientist, extension officer, consultant and entrepreneur.

Wood and wood products sciences: Work as wood products expert, production manager, product development manager, quality assurance manager, consultant and wood scientist.

PLANT AND SOIL SCIENCES (previously Crop Production Systems)
**BScAgriC IN PLANT AND SOIL SCIENCES**
4 years
**Fields of study:**
- Crop production
- Crop protection and breeding
- Soil and water management (majoring in Soil Science and Chemistry)

- Write the NBTs AQL and MAT
- For the NSC an aggregate of at least 55% (excluding Life Orientation)
- Afrikaans or English (Home Language or First Additional Language) 4
- Mathematics 4
- Physical Sciences 4 OR
  - Physical Sciences 3 and Life Sciences 4 OR
  - Physical Sciences 3 and Agricultural Sciences 6

For the field of study soil and water management as above, BUT:
- Mathematics 6

Career opportunities in crop production (agronomy, deciduous fruit, citrus, fynbos, viticulture and greenhouse), crop protection, genetic crop improvement, and soil and water management; various careers such as consultant, entrepreneur, manager, extension officer, technician or researcher.

EXTENDED DEGREE PROGRAMMES
1 extra year of study
Excepting BAgric in Agricultural Production and Management: Elsenburg, all the above programmes are also available as extended degree programmes.

- Students with an aggregate of 50 to 59.9% for the NSC may be required to take the extended degree programme
- The NBT results are taken into consideration
- Any student accepted for a mainstream programme may switch to the EDP

As described above for each programme.
There are two broad groups: general programmes, which give you a broad background for a variety of careers in related fields, and specialised programmes, which are focused on specific careers.

**ADMISSION REQUIREMENTS**

- Write the NBTs AQL
- For the NSC an aggregate of at least 60%
- See further admission requirements under programmes

### Programmes

<table>
<thead>
<tr>
<th>BA IN THE HUMANITIES#</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General degree programme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applications close on 30 June; late applications up to 30 September.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Routes:**
- Human thought, language, culture and art
- Humans and society

- *Home Language 4*
- *First Additional Language 3*

If Socio-Informatics is taken as a university subject, then also:
- *Mathematics 4 or Mathematical Literacy 6*

**BA IN LANGUAGE AND CULTURE#**

- 3 years
- General degree programme
- Applications close on 30 June; late applications up to 30 September.

- *Home Language 4*
- *First Additional Language 3*

Career opportunities in professions requiring expertise in languages and culture, diplomatic service, teaching, publishing, advertising, tourism, journalism and the translation industry.

**BA IN SOCIAL DYNAMICS#**

- 3 years
- General degree programme
- Applications close on 30 June; late applications up to 30 September.

- *Home Language 4*
- *First Additional Language 3*

If Socio-Informatics is taken as a university subject, then also:
- *Mathematics 4 or Mathematical Literacy 6*

If Economics is taken as a university subject, then also:
- *Mathematics 5*

Subjects such as Economics, Geography and Environmental Studies, History, Political Science, Psychology, Social Anthropology and Sociology with postgraduate study can lead to a career in psychology, planning, media, education and training, liaising, politics, management, research, analysis and consultation.

**BA IN DECISION MAKING AND KNOWLEDGE MANAGEMENT**

- 3 years
- Applications close on 30 June; late applications up to 30 September.
- No new students accepted after first week of lectures.

- *English or Afrikaans (Home Language or First Additional Language) 5*
- *Mathematics 5 or 6 (depending on your choice of modules)*

Careers in today’s complex market-economic world of work where leadership and decision-making are required. Researcher, analyst, project planner, scenario planner, diplomat, liaison officer, manager, marketer, journalist and communication officer.

**BA IN DEVELOPMENT AND THE ENVIRONMENT#**

- 3 years
- Applications close on 30 June; late applications up to 30 September.

- *Home Language 4*
- *First Additional Language 3*

If Socio-Informatics is taken as a university subject, then also:
- *Mathematics 4 or Mathematical Literacy 6*

If Economics is taken as a university subject, then also:
- *Mathematics 5*

Careers in community development, population development, town and regional planning, tourism, resource planning and management, and environmental planning and management in the public and private sectors.

**BA IN DRAMA AND THEATRE STUDIES**

- 3 years
- Specialisation areas:
  - Acting and performance training
  - Technical and management training
- Applications close 15 August; selection requirements and assignment available on tel. 021 808 2508 mornings.

- *Home Language 4*
- *First Additional Language 4*

 Candidates must be available for auditions and/or interviews end of September at the Drama Department in Stellenbosch

This qualification equips you for a career in the theatre and media industries, and related fields such as public relations, marketing, teaching, journalism and cultural affairs.

**BA IN THE HUMANITIES#**

- 3 years
- General degree programme
- Applications close on 30 June; late applications up to 30 September.

- *Home Language 4*
- *First Additional Language 3*

If Socio-Informatics is taken as a university subject, then also:
- *Mathematics 4 or Mathematical Literacy 6*

Career opportunities in a choice of many subjects that focus on either of the two routes. Prepares you, with further postgraduate training, for professions such as teacher, psychologist, language practitioner, journalist and town and regional planner.
BA IN HUMAN RESOURCE MANAGEMENT#  
3 years  
Applications close on 30 June; late applications up to 30 September.  
• Home Language 4  
• First Additional Language 3  
• Mathematics 4  
**If Statistics 186 is taken as a university subject, then:**  
• Mathematics 5  
Development manager, human resource manager, psychometrician, management consultant and labour relations practitioner.

BA IN INTERNATIONAL STUDIES#  
3 years  
Applications close on 30 June; late applications up to 30 September.  
• English Home Language 4 or English First Additional Language 5  
The diplomatic service, parliament, the National Intelligence Agency, the tourist industry, international journalism, public liaison work, the import and export industry, institutions that promote commerce and investment (e.g. WESGRO), international organisations (such as the UN, Amnesty International, World Economic Forum).

BA IN LAW  
See BA (Law) under Faculty of Law.

B OF MUSIC (BMus)  
4 years  
Applications close 31 August; selection based on an audition and theoretical test, during which candidates must demonstrate proof of the required standards; further information at mdn@sun.ac.za.  
• Home Language 4  
• First Additional Language 3  
• In the main instrument (or in singing) at least a practical standard in classical music equivalent to the Grade VII examination and theoretical knowledge equivalent to any of the examining bodies’ Grade V theory examination  
**If Mathematics is taken as a university subject, then also:**  
• Mathematics 6  
Music educator (lecturer or teacher), performing artist, accompanist, music director, musicologist, composer or choir conductor. Music-related professions such as journalist, music arranger or music technologist. Postgraduate fields of study: music education, performance, chamber music/accompaniment, soloist singer/solo instrumentalist, musicology, composition, music technology, ethnomusicology and choral conducting.

BA IN MUSIC  
3 years  
Applications close 31 August; selection based on an audition and theoretical test, during which candidates must demonstrate proof of the required standards; further information at mdn@sun.ac.za.  
**Routes:**  
- General  
- Music technology  
• Home Language 4  
• First Additional Language 3  
• In the main instrument (or in singing) at least a practical standard in classical music equivalent to the Grade VII examination and theoretical knowledge equivalent to any of the examining bodies’ Grade V theory examination  
**For the route music technology, also:**  
• Mathematics 4  
**If Mathematics is taken as a university subject, then also:**  
• Mathematics 6  
General route: Private music teacher, choir conductor, performing artist or accompanist. Upon further studies also music-related professions such as music journalist, music therapist or high-school teacher. Postgraduate studies in your chosen major may open up other careers.  
**Music technology route:** Music teacher, composer and arranger, music technologist, sound technician, and entrepreneur in environments where multimedia systems are used interactively. Depending on your subject choice, also high-school teacher after obtaining the Postgraduate Certificate in Education (PGCE) – see under Faculty of Education.

DIPLOMA IN PRACTICAL MUSIC  
3 years  
Applications close 31 August; selection based on an audition and theoretical test, during which candidates must demonstrate proof of the required standards; further information at mdn@sun.ac.za.  
• NBTs not to be written  
• A National Senior Certificate (NSC)  
• For the NSC achieve at least level 3 in each of 4 subjects (excluding Life Orientation)  
• In the main instrument (or in singing) at least a practical standard in classical music equivalent to the Grade VII examination and theoretical knowledge equivalent to any of the examining bodies’ Grade III/IV theory examination  
Instrumental or singing teacher, choral conductor, church organist, performing artist or orchestral musician.
<table>
<thead>
<tr>
<th>Programme</th>
<th>Duration</th>
<th>Application Dates</th>
<th>Selection Criteria</th>
<th>Admission Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher Certificate in Music</td>
<td>1 year</td>
<td>Applications close 31 August; selection based on an audition and theoretical test, during which candidates must demonstrate proof of the required standards; further information at <a href="mailto:mdn@sun.ac.za">mdn@sun.ac.za</a>.</td>
<td>NBTs not to be written. A National Senior Certificate. In the main instrument (or in singing) at least a practical standard in classical music equivalent to the Grade V/VI examination and theoretical knowledge equivalent to any of the examining bodies’ Grade III/IV theory examination.</td>
<td>You can add value to community music projects. This qualification can prepare you for the Diploma in Practical Music or one of the music degree programmes, provided you comply with all the admission requirements.</td>
</tr>
<tr>
<td>BA in Political, Philosophical and Economic Studies (PPE)</td>
<td>3 years</td>
<td>Applications close on 30 June; late applications up to 30 September.</td>
<td>Home Language 4. First Additional Language 3. Mathematics 5.</td>
<td>Manager, journalist, businessperson, diplomat, civil servant, researcher, consultant or academic.</td>
</tr>
<tr>
<td>B of Social Work #</td>
<td>4 years</td>
<td>Applications close on 30 June; late applications up to 30 September.</td>
<td>Home Language 4. First Additional Language 3.</td>
<td>Social worker in government departments on a national, provincial and local level, as well as in voluntary welfare organisations and non-governmental organisations.</td>
</tr>
<tr>
<td>BA in Socio-informatics #</td>
<td>3 years</td>
<td>Applications close on 30 June; late applications up to 30 September.</td>
<td>Home Language 4. First Additional Language 3. Mathematics 5. If Mathematics is taken as a university subject, then also: Mathematics 6.</td>
<td>Knowledge engineer, business analyst, project manager, internet developer, corporate information systems architect, knowledge manager, electronic business specialist, database manager and analyst in decision support systems.</td>
</tr>
<tr>
<td>BA in Sport Science</td>
<td>3 years</td>
<td>Applications close 30 June; place for 80 students; complete the Department’s selection questionnaire and medical history form (available at <a href="http://www.maties.com">www.maties.com</a> or 021 808 4818) and submit with your application for admission.</td>
<td>Home Language 4. First Additional Language 4. Mathematics 3 or Mathematical Literacy 6. Physical Sciences 3 or Life Sciences 4. Attendance of sport practicals is compulsory.</td>
<td>Sports coaching, recreation leadership, sports administration, marketing, sports management, sports for persons with disabilities, the fitness industry, biokinetics, sport research and teaching.</td>
</tr>
<tr>
<td>BA in Visual Arts</td>
<td>4 years</td>
<td>Applications close on 30 September; portfolio to be handed in by 30 September; information on 021 808 2508 mornings. Routes: - Fine arts - Jewellery and metal design - Visual communication design</td>
<td>Home Language 4. First Additional Language 3. Selection based on a prescribed portfolio.</td>
<td>Professional artist, graphic designer, illustrator, jewellry designer or art critic. Related professions: stage designer, book designer, museum and art gallery official, art dealer, art entrepreneur, gemmologist, technical expert in sculpture, welding, casting, lithography as well as fields such as film production, art direction, photography and advertising.</td>
</tr>
<tr>
<td>Extended Degree Programmes</td>
<td>4 years</td>
<td>All programmes marked with a #.</td>
<td>Students are selected for the EDPs at the discretion of the Faculty. See “Academic support…” on page 2.</td>
<td>Careers as described above for the various programmes.</td>
</tr>
</tbody>
</table>
Closing dates for applications: Applications close 30 June (first round of selection). Late applications may be submitted until 30 September.

Language requirements: The first year of all our programmes is offered in English and in Afrikaans (A&E specification or parallel-medium instruction). With the exception of one programme, BComm (Management Sciences), the subsequent years are offered in Afrikaans only (A specification). Candidates who did not take Afrikaans as a matric subject, but are adequately proficient to study modules in Afrikaans (A specification), may apply for special admission to programmes where Afrikaans is a requirement. Information on tests to assess proficiency in Afrikaans is available at the Client Service Centre. If these tests prove sufficient proficiency, candidates will be admitted to the programme. If not, rather consider the parallel-medium BComm (Management Sciences) degree programme.

---

**BROAD DEGREE PROGRAMMES WITH VARIOUS CAREER FOCUSES**

**ADMISSION REQUIREMENTS**

- Write the NBTs AQL and MAT
- For the NSC an aggregate of at least 60% (excluding Life Orientation)
- Mathematics 5
- English Home Language 4 OR Afrikaans Home Language 4*
- Afrikaans First Additional Language 5 OR English First Additional Language 5*

**For BComm (Mathematical Sciences):**
- Mathematics 6

**For BComm (Management Sciences):**
- English Home Language 4 OR English First Additional Language 5 OR Afrikaans Home Language 4 OR Afrikaans First Additional Language 5

**For BComm (Management Sciences) (Extended Degree Programme):**
- Mathematics 4 • English Home Language 4 OR English First Additional Language 5 OR Afrikaans Home Language 4 OR Afrikaans First Additional Language 5

If you want to take Mathematics 114, 144 and/or Computer science 114, 144 as university subjects, then:
- Mathematics 6
* If you do not satisfy both these language requirements, see “Language requirements” above.

---

### Programmes

<table>
<thead>
<tr>
<th>BComm</th>
<th>Career opportunities per focal area</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years</td>
<td>An expert in the public or private sector who can add value in the area of economic thought and the management of a business or a public organisation, including financial and human resource management. (Agricultural economics) Careers include entrepreneurship, general management, financial management and logistics management for the provision of agricultural inputs and services, for the processing and distribution of agricultural products, and for agricultural financing. (Financial planning) Careers as financial advisors in banking, insurance and other industries, and in own enterprise. (Investment management) The curriculum is based on that of the sought after international Chartered Financial Analyst. Careers include investment analyst, portfolio manager, securities broker and trader. (Public and development management) Management careers in the public, non-government and development sector such as general, strategic, financial, personnel, project or programme manager. Development planner; community developer or a specialist in policy and management research and consultation.</td>
</tr>
</tbody>
</table>

| BComm (ECONOMIC SCIENCES) | Economics: This leads to a career in the financial sector as economic/financial analyst or economic/management consultant. Graduates with an aptitude for and training in mathematics and statistics on top of economics can opt for employment as econometricians in the financial or public sectors or at a research institution. (Transport economics) Transport economists plan and manage transport infrastructure, the formulation of transport policy and the control of transport systems for public enterprises and transport organisations. |

---

### Focal areas (choose in second year):

- Agricultural economics
- Financial planning
- Investment management
- Public and development management

---

### Focal areas (choose in second year):

- Economics (econometricians)
- Economics (economic and management consultants)
- Economics (financial sector)
- Transport economics
DEGREE PROGRAMMES FOR PROFESSIONAL REGISTRATION

**BComm (Management Sciences)**
3 years
Focal areas (choose in second year):
- Entrepreneurship and innovation
- Financial management
- Human resource management
- Information systems management
- Logistics management
- Marketing management
- Quantitative management

Classes in Afrikaans and in English (parallel-medium tuition) up to final year. Students will not be permitted to change over to other programmes unless they meet both language requirements unless they meet both language requirements.

**BComm (Management Sciences)**
(Extended Degree Programme)
4 years
Place for ±100 students.
Classes in Afrikaans and in English (parallel-medium tuition) up to final year.

Focal areas the same as for the BComm (Management Sciences) above.

Students, who are accepted for this programme, will not be permitted to change over to other programmes.

**Toelatingsvereistes**
- Write the NBTs AQL and MAT
- For the NSC an aggregate of at least 70% (excluding Life Orientation)
- Mathematics 6 OR Mathematics 5 and Accounting 6
- English Home Language 4 OR Afrikaans Home Language 4*
- Afrikaans First Additional Language 5 OR English First Additional Language 5*
- If you do not satisfy both these language requirements, then see "Language requirements" above.

**Beroepsmonontlikhede**
This qualification is highly regarded internationally and sought-after undergraduate training for prospective chartered accountants. To obtain the professional qualification of Chartered Accountant, you have to pass the examinations of the South African Institute of Chartered Accountants (SAICA) and/or the Independent Regulatory Board for Auditors (IRBA). A chartered accountant can work as an auditor for an auditing firm. This profession has statutory protection. Other jobs in, for example, financial management, management accounting or tax consulting can also be considered.

**Programme**
**BAcc**
3 years

**BComm (Mathematical Sciences)**
3 years
Focal areas (choose in second year):
- Computer science
- Financial risk management
- Mathematical statistics
- Operations research

**BComm (Mathematical Sciences)**
(Extended Degree Programme)
4 years
Place for ±100 students.
Classes in Afrikaans and in English (parallel-medium tuition) up to final year.

**Entrepreneurship and innovation**: This focal area teaches you how to create your own job opportunities and to make creative contributions to other businesses.

**Financial management**: Whether you consider starting your own business or working for a big company, a sound knowledge of financial management is essential for success. Careers are investment analyst, financial manager or financial adviser.

**Human resource management**: This leads to non-statutory registration as ‘Human Resource Practitioner’ with the South African Board for People Practices. Careers are personnel manager, market researcher, training manager, consultant and labour relations manager. (For statutory registration as Psychometrist or Industrial Psychologist, see BComm (Psych.).)

**Information systems management**: Knowledge technologies are integrated with organisational strategies and processes in order to enhance productivity, efficiency and (sometimes) innovation.

**Logistics management**: A logistics manager plans and controls the efficient, effective flow and storage of goods, services and related information from the place of origin to the place of consumption.

**Marketing management**: In this field you will be engaged in various marketing activities such as product decisions, price determination, distribution, advertising and creating awareness of products/services. Possible careers are: marketing manager, sales manager, client manager and advertising manager.

**Quantitative management**: After sufficient practical experience you can analyse and manage business functions and processes at the strategic, tactical and operational levels.

**Computer science**: With a broad knowledge of computer science and of the business world, you will be able to make a success of a career as programmer in any environment.

**Financial risk management**: People with training in financial risk management, mathematical statistics and financial mathematics are appointed by large financial institutions as financial quantitative analysts, such as financial risk managers, portfolio managers and financial instrument dealers.

**Mathematical statistics**: Mathematical-statistical theory, procedures and the accompanying computer skills are in great demand in national and international corporate, research and public sectors. Statistician, data miner, data manager and statistical analyst in marketing, information and management departments.

**Operations research**: This practice-oriented focal area finds mathematically-based solutions for problems that have a high degree of complexity, uncertainty and conflict in factories, businesses, banks, and the mining and agriculture sectors.
To become an Actuary (Fellow of the Actuarial Society of South Africa) you need to pass the fifteen examinations of the professional body and have sufficient work experience. Successful university studies can result in exemptions from many of these examinations.

The internationally recognised professional qualification of Chartered Certified Accountant is obtained by passing the examinations of the Association of Chartered Certified Accountants (ACCA, London). Certified accountants prepare financial statements, do internal auditing and give advice on business and taxation matters.

The internationally recognised professional qualification of Chartered Management Accountant is obtained by passing the examinations of the Chartered Institute of Management Accountants (CIMA, London). Chartered management accountants focus on financial competencies and interpret and use financial information in the management of a business.

Statutory registration with the Health Professions Council of South Africa (HPCSA) as Psychometrist (independent practice) is possible after obtaining the BComm (Psych) and BComHons (Psych) degrees, an internship of six months and passing a professional board exam. Statutory registration as an Industrial Psychologist with the HPCSA is possible after successful completion of the MComm (Psych) programme, an internship of 12 months and a professional board exam.

DEGREE PROGRAMMES WITH A FOCUS ON LAW

For admission requirements and career opportunities, see under the Faculty of Law:
BComm (Law)
BAccLLB
### Programmes

<table>
<thead>
<tr>
<th>Programme</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEd (GENERAL EDUCATION)</strong>&lt;br&gt;4 years</td>
<td>• Write the NBTs AQL&lt;br&gt;• An aggregate of at least 55% for the NSC or IEB (excluding Life Orientation)&lt;br&gt;• Mathematics 3 OR Mathematical Literacy 5 (or before 2008 a pass in Mathematics on the Standard Grade) AND <strong>Learners who were taught in English:</strong>&lt;br&gt;  • English (Home Language or First Additional Language) 5&lt;br&gt;  • Afrikaans or Xhosa (Home Language or First Additional Language) 4&lt;br&gt;<strong>OR Learners who were taught in Afrikaans:</strong>&lt;br&gt;  • Afrikaans (Home Language or First Additional Language) 5&lt;br&gt;  • English or Xhosa (Home Language or First Additional Language) 4</td>
<td><strong>TEACHER FOR GRADES 8 to 12</strong>&lt;br&gt;Professional high-school teacher (Senior to Further Education and Training phase).</td>
</tr>
<tr>
<td><strong>PGCE (POSTGRADUATE CERTIFICATE IN EDUCATION)</strong>&lt;br&gt;1 year</td>
<td>A degree from one of the other faculties with two school subjects. See Calendar Part 6 for the requirements of the various curriculum studies subjects.</td>
<td><strong>TEACHER FOR GRADES R TO 3 AND 4 TO 9</strong>&lt;br&gt; Educator for the General Education and Training Phase in either of the two specialisation options. With further training you can also become a teacher of learners with special educational needs, or an educational psychologist.</td>
</tr>
</tbody>
</table>

### FACULTY OF EDUCATION

We recommend that you take some of the following subjects at school: Accounting, Business Studies, Computer Application Technology, Economics, Geography, History, Information Technology, Life Sciences, Mathematics, Physical Sciences, and Religion Studies.

### FACULTY OF ENGINEERING

Professional engineers are primarily concerned with the progress of technology by innovation, creativity and change. Their work requires original thought, discretion and sound judgement, and usually centres on people and technology. The BEng programmes have been accredited by the Engineering Council of South Africa (ECSA) for registration of graduates as Professional Engineers after acquiring the relevant experience in practice.

**MINIMUM ADMISSION REQUIREMENTS**

- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60%
- Mathematics 6
- Physical Sciences 5
- English Home Language 3 OR English First Additional Language 5 OR English First Additional Language 4 together with Afrikaans Home Language 3, or Afrikaans First Additional Language 5
- Over and above the aforementioned, candidates are also subject to selection according to selection criteria.
- Applications close 30 June; late applications close 30 September.

**SELECTION CRITERIA**

A selection formula is applied, using the results of 6 matric subjects (excluding Life Orientation) with Mathematics and Physical Sciences counting double. To have a reasonable chance of selection, the mark for Mathematics, as well as the average mark, should be above 75%.
### Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEng (Chemical)</strong></td>
<td>Chemical and mineral processing engineers are involved in the production of chemicals and other consumable goods, and the extraction of minerals on an industrial scale. They occupy posts in industries such as the chemical industry, mines and metallurgical plants, manufacturing plants, food industries, and pharmaceutical, biotechnological and research institutions.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
<tr>
<td><strong>BEng (Civil)</strong></td>
<td>Civil engineers are involved in the design, construction and maintenance of economical, residential and social infrastructure, eg. bridges, dams, harbours, coal, hydro-electrical, solar, and wind turbine power generating facilities, airports, mines, roads, railway lines, residential and office buildings, hospitals and schools.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
<tr>
<td><strong>BEng (Electrical and Electronic)</strong></td>
<td>Electrical and electronic engineers are concerned with electrical energy applications in industries such as Eskom, mines, municipalities, railways and harbours, as well as the design of electronic information systems such as computer networks, large software systems, microcontrollers, cell phone networks, television, satellite systems, radar and automatic aviation systems.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
<tr>
<td><strong>BEng (Industrial)</strong></td>
<td>Industrial engineers design, implement, operate, improve and manage technological systems to make enterprises more competitive. These systems usually consist of people, equipment, information, capital, processes and procedures. Industrial engineers improve the quality, productivity and cost efficiency of these elements through optimisation.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
<tr>
<td><strong>BEng (Mechanical)</strong></td>
<td>Mechanical engineers design, develop and manufacture machines, structures, plants and products for large enterprises as well as smaller consultancy partnerships. Mechanical engineers play key roles in the development, management and maintenance of systems such as power stations, aircraft, vehicles, process plants and manufacturing plants.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
<tr>
<td><strong>BEng (Mechatronic)</strong></td>
<td>Mechatronic engineers design smart machines by integrating computer, electronic and mechanical components, for example by combining machine parts, sensors and actuators that are controlled by computer systems. Examples are medical devices, artificial hearts, automated assembly lines and engine controllers.</td>
</tr>
<tr>
<td>4 years</td>
<td></td>
</tr>
</tbody>
</table>

### Programs (Chemical)

**Career opportunities**

Chemical and mineral processing engineers are involved in the production of chemicals and other consumable goods, and the extraction of minerals on an industrial scale. They occupy posts in industries such as the chemical industry, mines and metallurgical plants, manufacturing plants, food industries, and pharmaceutical, biotechnological and research institutions.

### Admissions

- **Programs**
  - MBChB
  - BSc in Dietetics

- **Admission requirements**
  - Write the NBTs AQL and MAT
  - An NSC aggregate of at least 50%
  - Mathematics 4
  - Physical Sciences 4
  - Life Sciences 4
  - Afrikaans and English as school subjects are strongly recommended

- **Career opportunities**
  - After two years of internship and a year of community service on completing the programme, you will be eligible for registration as an Independent Medical Practitioner with the Health Professions Council of SA.
  - After a year of community service you will be eligible for registration as Dietitian with the Health Professions Council of SA.
**FACULTY OF LAW**

**Programmes**

**LLB (FOUR-YEAR)**
4 years
Applications close on 30 June; write the NBTs before the end of June.

- Write the NBTs AQL
- For the National Senior Certificate (excluding Life Orientation) an aggregate of at least 60%
- English or Afrikaans Home Language 5

**If Economics is taken as a university subject, then also:**
- Mathematics 5

**If a university subject from another faculty is taken, make sure that you meet its requirements.**

**Career opportunities**
Graduates can practise law as an attorney or advocate after completing the prescribed practical training and passing the entrance examination set by the profession.

**LLB**
3 years
As a second bachelor’s degree

- Any B degree from a South African university with an aggregate of at least 60% in the final year

**Career opportunities**
Career in law, i.e. advocate, lawyer or legal adviser, after completing the prescribed practical training and passing the entrance examination set by the profession.

**BA (LAW)**
3 years
Applications close on 30 June; write the NBTs before the end of June.

- Write the NBTs AQL
- An NSC aggregate (excluding Life Orientation) of at least 60%
- Home Language 5
- First Additional Language 3

**Career opportunities**
Equips you to practise as an attorney or advocate after a further two years of LLB (postgraduate) study, completion of your articles or pupilship as well as the required
If Economics is taken as a university subject, then also:

• Mathematics

If a university subject from another faculty is taken, make sure that you meet its requirements.

BC
Comm (Law)
3 years
Applications close on 30 June; write the NBTs before the end of June.

• Write the NBTs AQL and MAT
• An NSC aggregate (excluding Life Orientation) of at least 60%
• English Home Language 4 OR Afrikaans Home Language 4
• Afrikaans First Additional Language 5 OR English First Additional Language 5
• Mathematics 5

Provides the necessary background for a career in the business world and in commercial law. Equips you to practise as an attorney or advocate after a further two years of LLB study and completing your articles or pupilship.

BAccLLB
5 years
Applications close on 30 June; write the NBTs before the end of June.

• Write the NBTs AQL and MAT
• An NSC aggregate (excluding Life Orientation) of at least 70%
• English Home Language 4 OR Afrikaans Home Language 4
• Afrikaans First Additional Language 5 OR English First Additional Language 5
• Mathematics 6 OR Mathematics 5 and Accounting 6

The BAncLLB degree is a unique degree, combining two degrees. The LLB enables you to serve articles of clerkship or pupilship with an attorney or advocate, respectively. The BAcc gives you access to Honours in Accounting, which, among others, is required for becoming a chartered accountant.

These programmes are presented for selected officers of the South African National Defence Force (SANDF) and other defence forces. They are focused on national security and defence issues. Each candidate selects a programme in line with the career development plan that has been drawn up for him/her individually. A recommendation from the Military Academy Selection Board that takes into account the requirements set by the University and the SANDF is required for all these programmes. Applications close 30 June.

Programmes

<table>
<thead>
<tr>
<th>BMIL in Human and Organisation Development</th>
<th>3 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMIL in Organisational and Resource Management</td>
<td>3 years</td>
</tr>
<tr>
<td>BMIL in Security and Africa Studies</td>
<td>3 years</td>
</tr>
<tr>
<td>BMIL in Technology</td>
<td>3 years</td>
</tr>
<tr>
<td>BMIL in Technology and Defence Management</td>
<td>3 jaar</td>
</tr>
</tbody>
</table>

Admission requirements

• The minimum requirements for university study apply (see page 1)
• Mathematics 3 or Mathematical Literacy 5
• The minimum requirements for university study apply (see page 1)
• Mathematics 4
• Physical Sciences 4
• Mathematics 4
• Physical Sciences 4

The first year of a BSc programme is devoted to building a foundation of knowledge and skills in one of the broad fields of study. Once the foundation has been laid in year one, you may then reconsider the direction in which you want to go and select a more specific programme and stream. We encourage you to enhance your BSc degree by taking a BSc Honours programme that will enable you to gain recognition and registration (where relevant) as a professional scientist.
SELECTION

- The closing date for all applications is 30 June of the year preceding study.
- All our study programmes are subject to selection, based on the minimum requirements laid down and the number of students that can be accommodated per programme.
- The minimum requirements for selection are a selection mark (SM) of 65%, and programme-specific requirements for Mathematics and Physical Sciences.
- Based on your matric subjects, excluding Life Orientation, $SM = \frac{\text{best language mark} + (\text{Mathematics } \times 2) + \text{subject 1} + \text{subject 2} + \text{subject 3} + \text{subject 4}}{7}$
- If the subject Physical Sciences is one of your programme's requirements, then it should be included in the formula.

PROGRAMMES IN THE BIOLOGICAL SCIENCES

ADMISSION REQUIREMENTS

- Write the NBTs AQL and MAT
- Afrikaans or English (Home Language or First Additional Language) 4
- Physical Sciences 4

If you take Mathematics 114 or 144 and Physics 114 or 144 as university subjects, then also:

- Mathematics 6

If you take Mathematics (Bio) 124* and Physics (Bio) 134* or 154* as university subjects, then also:

- Mathematics 5

* Covers selected topics relevant to the biological sciences, earth science and geo-informatics fields of study.

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc IN BIODIVERSITY AND ECOLOGY 3 years</td>
<td>Biologist or ecologist in the private or public sector or the academic world, teaching, research institutions, ecotourism, environmental conservation.</td>
</tr>
<tr>
<td>BSc IN HUMAN LIFE SCIENCES 3 years Streams: Biology, Biology with psychology</td>
<td>Physiologist, biochemist, anatomist, geneticist or psychologist (with the necessary postgraduate qualification) in the community, private or public sector or the academic world.</td>
</tr>
<tr>
<td>BSc IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY 3 years</td>
<td>Microbiologists, biochemists, geneticists and biotechnologists work on human, plant and animal cells, yeasts, bacteria, fungi and viruses to develop disease-free plants (agriculture, food industry), new medicines (pharmaceutical industry), or enzymes useful in industry or mining.</td>
</tr>
<tr>
<td>BSc IN SPORT SCIENCE 3 years Also complete the medical and physical fitness selection forms available on <a href="http://www.maties.com">www.maties.com</a> or <a href="mailto:moira@sun.ac.za">moira@sun.ac.za</a> or 021 808 4723</td>
<td>Sports coaching, sport management, marketing, sports research, work with persons with disabilities, the fitness industry, biokinetics and teaching (physical training). Requirement for Mathematics (Bio) and Physics (Bio) applies.</td>
</tr>
</tbody>
</table>

PROGRAMMES IN THE MATHEMATICAL SCIENCES

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc IN MATHEMATICAL SCIENCES 3 years Focus: Applied mathematics, Bio-mathematics, Computer science, Financial mathematics, Mathematics, Mathematical statistics, Operations research (OR)</td>
<td>Write the NBTs AQL and MAT Afrikaans or English (Home Language or First Additional Language) 4 Mathematics 6 A 4 in any other subject from the subjects listed for university admission (see page 1) If you want to take Chemistry or Physics as a university subject, then also: Physical Sciences 4</td>
<td>Each focus prepares you for a different line of work. Applied mathematics: Programmer or expert in the modelling of dynamic processes, image processing, numerical methods and flow modelling in industry, banking or computer industry. Bio-mathematics: Career in the pharmaceutical industry, the government, health organisations, the agricultural and environmental sectors or as a researcher at an academic institution in the fields of molecular and systems biology, bioinformatics and ecology. Computer science: Programmer, systems designer, security analyst, network designer, designer of mobile applications for smartphones and tablets, 3D animator for the film industry.</td>
</tr>
</tbody>
</table>
Financial mathematics: Career opportunities in banking, insurance and with investment institutions.
Mathematical statistics: Identify, analyse and interpret information in data for banking and insurance industries. Tertiary teaching.
Mathematics: Careers requiring sophisticated quantitative skills, such as in the banking, investment and insurance sectors. Secondary or tertiary teaching.
Operations research: Logisticians find solutions to complicated quantitative problems and allocate scarce resources optimally. Application possibilities in company farming, mining, forestry, the manufacturing sector, product marketing, consultant services and specialist advice.

PROGRAMMES IN THE PHYSICAL SCIENCES

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc in Chemistry</td>
<td>• Write the NB Ts AQL and MAT</td>
<td>Organic and biochemist: Researchers in state laboratories (forensic laboratories in Cape Town and Pretoria), manufacturers of pesticides, and pharmaceutical and cosmetic products, chemists working in process and quality control of raw materials.</td>
</tr>
<tr>
<td>3 years</td>
<td>• Afrikaans or English (Home Language or First Additional Language) 4</td>
<td>Analytical chemist: The development and operation of chemical plants, the development of new analytical methods and production processes, marketing of chemicals and scientific instruments, education and environmental scientists.</td>
</tr>
<tr>
<td>Streams:</td>
<td>• Mathematics 6</td>
<td>Polymer chemist, materials expert: Employment in the packaging, paint, adhesives or textiles industries, as well as in the manufacturing sector or with suppliers of raw materials.</td>
</tr>
<tr>
<td></td>
<td>• Physical Sciences 4</td>
<td>Careers in textile industry: Manager, product developer (hi-tech products, prostheses, sportswear, sports equipment, protective clothing), textile engineer (medical textiles, industrial textiles, microfibres, nanofibres), technical sales manager, production manager, quality manager, buyer or researcher.</td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics and Physics as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics (Bio) and Physics (Bio) as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 5</td>
<td></td>
</tr>
<tr>
<td>BSc in Earth Sciences</td>
<td>• Write the NB Ts AQL and MAT</td>
<td>Geologist and earth scientist: National or international career in mining, exploration, applied mineralogy and environmental science. Possible employers are the Council for Geoscience, Mintek, the CSIR, the wide-ranging South African mining, mineral processing and exploration industries, and a variety of local and international geological and environmental science consultants.</td>
</tr>
<tr>
<td>3 years</td>
<td>• Afrikaans or English (Home Language or First Additional Language) 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Physical Sciences 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics and Physics as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics (Bio) and Physics (Bio) as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 5</td>
<td></td>
</tr>
<tr>
<td>BSc in Geoinformatics</td>
<td>• Write the NB Ts AQL and MAT</td>
<td>Geographical information science practitioner: GIS (Geographic Information Systems) and earth observation (remote sensing) specialists work for environmental consultants, planning and engineering firms, computer consultants, government agencies involved in resource and infrastructure management, natural and human resource development, mineral exploration and mining. A BScHons year added complies with the requirements for professional registration as a Geographical Information Science (GISc) practitioner.</td>
</tr>
<tr>
<td>3 years</td>
<td>• Afrikaans or English (Home Language or First Additional Language) 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Physical Sciences 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics and Physics as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics (Bio) and Physics (Bio) as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 5</td>
<td></td>
</tr>
<tr>
<td>BSc in Physics</td>
<td>• Write the NB Ts AQL and MAT</td>
<td>Nuclear physicist: Development opportunities at the iThemba Laboratory for Accelerator-based Sciences (iThemba LABS) and industries such as Eskom, the CSIR, Sasol, Iscor and the SABS.</td>
</tr>
<tr>
<td>3 years</td>
<td>• Afrikaans or English (Home Language or First Additional Language) 4</td>
<td>Laser physicist: Industries such as optical systems, communication (optical fibres), medicine (cancer</td>
</tr>
<tr>
<td>Streams:</td>
<td>• Mathematics 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Physical Sciences 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics and Physics as university subjects, then also:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mathematics 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If you take Mathematics (Bio) and Physics (Bio) as university subjects, then also:</td>
<td></td>
</tr>
</tbody>
</table>
Radiation, ecology (pollution monitoring), criminology (forensic science) and defence (control and communication). *Radiation physicist:* Monitoring of radiation risks for the Department of Health, nuclear power stations and uranium mines. *Theoretical physics:* Work in the broad fields of information technology, the biological and economic sciences and geology.

### EXTENDED DEGREE PROGRAMMES

All the above programmes are also available as extended degree programmes, meaning one extra year of study. See “Academic support…” page 2.

- See the admission requirements of the various programmes
- For either Mathematics or Physical Sciences one level lower than the requirement
- A selection mark slightly lower than 65%

Career opportunities as described above for each programme.

### FACULTY OF THEOLOGY

#### Programmes

<table>
<thead>
<tr>
<th>Programme</th>
<th>Admission requirements</th>
<th>Career opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTh (Bachelor of Theology)</td>
<td>Write the NBTs AQL.</td>
<td>Become a youth worker, counselor or community worker after completing the BTh degree.</td>
</tr>
<tr>
<td>3 years</td>
<td>An aggregate of at least 50%* for the NSC (excluding Life Orientation)</td>
<td></td>
</tr>
<tr>
<td>BDiv (Bachelor of Divinity)</td>
<td>Write the NBTs AQL.</td>
<td>To become a minister, complete the BDiv followed by the Postgraduate Diploma in Theology (Christian Ministry) and the MDiv.</td>
</tr>
<tr>
<td>4 years</td>
<td>An aggregate of at least 50%* for the NSC (excluding Life Orientation)</td>
<td></td>
</tr>
</tbody>
</table>

*Prospective students with an aggregate of between 50 and 55% will be registered for the extended degree programme, which means that the modules of the first year are spread over two years. See page 2.
www.maties.com