Admission Requirements for Undergraduate Programmes 2019
Application checklist

1. Explore your options at Stellenbosch University!
   Visit www.maties.com > ‘What can I study?’ or attend our Open Day on the University’s Stellenbosch and Tygerberg campuses on Saturday, 24 February 2018, from 9:00 to 16:00.

2. Take note of closing dates for application.
   - 31 May: MBChB programme
   - 30 June: All other programmes and accommodation in University residences

3. Select your programme.
   For Stellenbosch you may select three choices. Please read instructions on the selection of a programme. Visit www.maties.com > ‘Apply’ > ‘How do I apply?’

4. Complete your application.
   - Or get a paper application form at 021 808 9111 or at info@sun.ac.za.
   - As soon as you finalise your application, you will receive your **student number** (username) and **SUN password** to upload your supporting documents and monitor your application status.

5. Make sure that you upload all the required documents.
   Upload all the required application documents online at www.maties.com > ‘Apply’ > ‘Status of Application’ before the closing dates. **Incomplete applications cannot be considered for admission.**

   After one month, make sure that the University received your results. Visit www.maties.com > ‘Apply’ > ‘National Benchmark Tests’ and click the link ‘My NBT results…’

7. Monitor your status of your application for admission and for accommodation (if applicable).

8. Attend our big Welcoming Week at the start of 2019!
Welcome to Maties!

I am delighted you are considering coming to Stellenbosch University. I know we offer an experience that is second to none. But don’t just take my word for it – come and visit the campus to see for yourself what life at Maties is about!

We strive to be an inclusive, innovative and future-focused institution: a place of discovery and excellence where both staff and students are thought leaders in advancing knowledge in the service of all stakeholders.

To make new Maties feel at home quickly, we have organised the campus into student communities where day students can join residence students in one of the well-appointed cluster hubs to share a meal, take part in mentor groups for academic support or connect their computers to access the library’s generous online resources.

You will develop in many ways here, and also contribute to the growth of others. So get the most out of your university experience at Maties by immersing yourself in your chosen field of study, by taking part in the social life and activities on campus, by signing up for a leadership short course at the FVZS Institute or by joining a club or society for a new experience.

By doing this, you will gain much more than an excellent qualification here at Maties. Let us go forward together!

Prof Wim de Villiers
Rector and Vice-Chancellor
Did you know?

Stellenbosch is the OLDEST TOWN in South Africa.

In 1918, Stellenbosch University opened its doors to 503 STUDENTS & 39 LECTURERS.

In 2017, the University had 31,639 STUDENTS of which 11.5% was international students & 1,019 ACADEMIC STAFF.

CAMPUS:

- STELLENBOSCH CAMPUS (main campus): Faculties of AgriSciences, Engineering, Arts and Social Sciences, Science, Education, Law, Theology, and the larger part of Economic and Management Sciences.
- BELLVILLE PARK CAMPUS: University of Stellenbosch Business School and USB Executive Development Ltd.
- SALDANHA CAMPUS: Faculty of Military Science.
- TYGERBERG CAMPUS: Faculty of Medicine and Health Sciences.
- WORCESTER CAMPUS: Ukwanda Rural Clinical School.

The QS World University Rankings places Stellenbosch University in the TOP 2% of higher education institutions internationally.
The only South African university offering tuition in:

- FORESTRY
- LASER PHYSICS
- POLYMERIC SCIENCE
- GRAPE AND WINE SCIENCES

Throughput rate of 85.9%, one of the highest in South Africa in 2016

98 applications for patent cooperation treaties between 2009-2016 the MOST BY AN INSTITUTION IN SOUTH AFRICA

HIGHEST RESEARCH OUTPUT per fulltime staff member of all universities in the country for the last seven consecutive years

278 DOCTORAL DEGREES awarded in 2016 (our 65% success rate is the highest in the country)

Stellenbosch University Choir 1st on the Interkultur ranking list of 1 000 international choirs for 5 consecutive years
LANGUAGE AT THE UNIVERSITY
Stellenbosch University (SU) is committed to engagement with knowledge in a diverse society and strives through the Language Policy to ensure equitable access to learning and teaching opportunities for all students and staff members. Multilingualism is promoted as an important distinguishing feature of Stellenbosch University. Afrikaans, English and isiXhosa are used in academic, administrative, professional and social contexts. Pedagogically grounded teaching and learning are facilitated by medium of Afrikaans and English. The language of instruction for each module is shown on the module framework made available to students when classes start. Support is provided for the mastery of academic language in Afrikaans and English.

More information on language at SU is available on the website www.sun.ac.za/language.

INDEMNITY
The University reserves the right to adjust the information in this brochure at any time and as the need arises. This information may therefore be incomplete or out of date. The information is given here to the best of our knowledge and as accurately and fully as was possible at the time of going to press in December 2017. 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 given in this brochure.

Abbreviations
NSC = National Senior Certificate
NBTs = National Benchmark Tests
EDPs = extended degree programmes
STELLENBOSCH UNIVERSITY OPEN DAY:
24 FEBRUARY 2018
On our annual Open Day we welcome Grade 11 and 12 learners, parents, teachers and guidance counsellors to the Stellenbosch and Tygerberg campuses. Come and attend specially prepared faculty exhibitions and demonstrations in world-class facilities. Visit our beautiful campus and experience the vibrant student communities and residences.

To get you off to a good start, we offer presentations explaining how to apply, the admission criteria and financial assistance at Stellenbosch University.

ADVISORY SERVICES
Feel the vibe. Meet the people. Discover the attractions, traditions and the Maties lifestyle. Make an appointment on our website for a campus visit with one of our advisors. A campus tour will follow on a short discussion session about the specific study programmes presented at the University.

We encourage school groups to visit us on campus. Educators can book these information sessions and campus tours on our website.

CAREER ADVICE
Choice is good, but the awesome variety of programmes, subjects and career options available to you can be overwhelming. Could you do with a little help to decide on a direction? Tap into Stellenbosch University’s professional career advice service.

Make an appointment with any of our psychologists for psychometric assessment and an individual feedback session for the following:
• Guidance regarding subject choices for Grade 9 learners
• Career guidance for Grade 11 and 12 learners

Still uncertain about what career to choose? Make use of our free career assessment resources at www.gostudy.net/maties.

ENQUIRIES
021 808 4709
021 808 4708
maties@sun.ac.za
www.maties.com

ADMISSION TO THE UNIVERSITY
The University receives more applications than there are places for. All our programmes are selection programmes and applicants are selected according to the faculties’ selection guidelines on www.maties.com. Therefore, even though you may meet the minimum admission requirements of a programme, you are not guaranteed admission to the programme of your choice.

CLOSING DATES FOR APPLICATION
31 May: MBChB programme under Medicine and Health Sciences
30 June: All other programmes and University residence accommodation

Basic admission requirements for university study
• A National Senior Certificate (NSC) as certified by Umalusi for admission to bachelor’s degree studies, requiring at least 50% in four school subjects from the list of subjects designated for university admission below
• Writing of the National Benchmark Tests (NBTs) required by your chosen programme Please note that when you apply for a programme in the faculties of Law and of Medicine and Health Sciences, the NBTs need to be written by 30 June if you want to be considered for selection.
• Further specific requirements to be found under individual programmes
• Also see the faculties’ selection guidelines on www.maties.com
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.

Conditional admission
If you have not written the final NSC examination yet on application, your final Grade 11 marks will determine whether the University will admit you conditionally to a programme. Conditional admission means that you are admitted on condition that your final results for the NSC meet the basic admission requirements for university study and the minimum admission requirements of the programme you applied for. Only then can your admission to the University be finalised.

NATIONAL BENCHMARK TESTS
• The National Benchmark Tests (NBTs) are a measurement instrument for first-year applicants to enter higher education.
• All prospective students who wish to register at Stellenbosch for their first year are compelled to write the NBTs, irrespective of the year in which they completed Grade 12 or the examination system they followed.
• The NBTs assess a candidate’s ability to apply his/her academic literacy (language skills), quantitative literacy (numeracy skills) and mathematics in a tertiary (higher education) setting.
• The NBTs consist of two tests. The first test combines an academic literacy and quantitative literacy evaluation (AQL) in one multiple choice test. There are seven sections that must each be completed within a set time. The second test evaluates mathematical (MAT) ability, also by means of a multiple choice test, to be written within three hours.
• The NBTs are managed by the Alternative Admissions Research Project at the University of Cape Town. Further particulars on the NBTs are available on the website provided below.

• It is the test candidate’s responsibility to check that his/her NBT results are indeed loaded onto the www.maties.com website (see ‘Apply’ > ‘National Benchmark Tests’ > ‘My NBT Results ...’). If the results are not loaded, send the following particulars to the SU Client Services Centre: your NBT number, ID number, SU student number and official NBT results.

Enquiries about the writing of NBTs and the availability of NBT results

NBT Call Centre (University of Cape Town)

021 650 3523
www.nbt.ac.za

Enquiries about the use of NBT results for selection and placement at SU

SU Client Services Centre (Stellenbosch University)

021 808 9111
www.maties.com
info@sun.ac.za
021 808 3822

BURSARIES AND LOANS
Stellenbosch University offers various bursaries in two main categories:

1. Automatic award: Merit bursaries (on the basis of Grade 12 results)
2. Award based on application:
   – Sports bursaries (Enquiries: Maties Sport 021 808 4642)
   – Bursaries for study in specific faculties or departments
   – General bursaries for study in most faculties
   – Financial help for needy students
Closing dates for bursary applications
For NSFAS financial assistance, apply from 1 August to 30 November. Apply directly on the NSFAS website at www.nsfas.org.za

To improve your chances to obtain financial assistance, also apply online at www.maties.com using your student number for a bursary or loan through Stellenbosch University:

- Before 31 August for all bursaries and bursary loans administered by the University.
- The closing dates for bursaries from private companies vary. See the Calendar Bursaries and Loans, Part 2.

Enquiries for bursaries
Client Services Centre: 021 808 9111 or info@sun.ac.za
Website: www.maties.com > ‘Bursaries and Loans’

FEES
Application fees
Electronic applications: Pay the application fees electronically at the same time.
Applications using the paper form: The application fees may accompany the form by means of a cheque or postal order. Alternatively, attach an electronic funds transfer (EFT) proof of payment slip.

First payment of fees payable on day of registration
(These fees apply for 2018.)
Tuition fees (degree programmes) ➤R12 260
Tuition fees (certificate and diploma programmes) ➤R8 940
Accommodation fees ➤R11 600

How to pay
The University accepts various methods of payment: online with a credit card (see web address below for payment methods), cash, crossed cheque made out to Stellenbosch University, electronic deposit, direct deposit at the bank, debit card, and crossed postal order or debit order (debit order form available at the web address below or from Sean Davidse at 021 808 3530).

Banking details
Standard bank
Branch code 050610
Account number 063163225
SWIFT code (only for payments from abroad) SBZAZAJJ
Provide your student number as reference.
E-mail your proof of payment slip to Arlene Amerika at studentegelde@sun.ac.za or fax it to her at 021 808 3739.

After the first payment at registration, pay the balance of the account like this:
1. Pay according to the debit order system in eight equal instalments (the first on 1 April).
OR
2. Pay in two instalments before or on 31 May and 30 September.

Approximate study fees for 2018
Here are the 2018 study fees for full programmes. Use these as approximate figures to give you an indication of what study fees may be in 2019. Annually, tuition fees may potentially increase by about 8 to 10%. In due course, you may obtain the 2019 fees for specific programmes at the address below.

<table>
<thead>
<tr>
<th>Programme</th>
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<tbody>
<tr>
<td>BA (Bachelor of Arts)</td>
<td>R38 282</td>
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<td>BA in Visual Arts</td>
<td>R37 525</td>
</tr>
<tr>
<td>LLB (Bachelor of Laws – four-year)</td>
<td>R45 780</td>
</tr>
<tr>
<td>BSc (Bachelor of Science)</td>
<td>R46 200</td>
</tr>
<tr>
<td>BSc in Forestry</td>
<td>R42 759</td>
</tr>
<tr>
<td>BScAgric (Bachelor of Science in Agriculture)</td>
<td>R43 626</td>
</tr>
<tr>
<td>BSc in Food Science</td>
<td>R45 470</td>
</tr>
<tr>
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<td>R38 315</td>
</tr>
<tr>
<td>BCom in Law</td>
<td>R47 558</td>
</tr>
<tr>
<td>BCom in Actuarial Science</td>
<td>R57 115</td>
</tr>
<tr>
<td>BAcc (Bachelor of Accounting)</td>
<td>R41 994</td>
</tr>
<tr>
<td>BAccLLB</td>
<td>R49 809</td>
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<td>BEng (Bachelor of Engineering)</td>
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BEd (Bachelor of Education)  R37 027
BTh (Bachelor of Theology)  R37 904
BDiv (Bachelor of Divinity)  R42 089
MBChB (Medicine)  R59 504
Bachelor of Occupational Therapy  R46 999
Bachelor of Speech-Language and Hearing Therapy  R43 019
BSc in Physiotherapy  R45 590
BSc in Dietetics  R46 059

Enquiries
Client Services Centre:
021 808 9111
info@sun.ac.za

Cost of a specific study programme:
www.maties.com > ‘Fees’ > ‘Provisional statement of fees (quotation)’

Website for payment methods:
www.maties.com > ‘Fees’ > ‘Payment options’

ACCOMMODATION
RESIDENTIAL ACCOMMODATION

How to apply
• You can apply online for accommodation along with your application for admission to Stellenbosch University.
• Space in University residences is limited and applicants are therefore subject to a selection process. Applications for accommodation usually exceed the available space at the University. We therefore regretfully cannot guarantee that you will obtain a place in a residence or in the residence of your choice.
• To be considered for a place in a residence you must first be admitted to a programme at the University. Should your first choice of study be subject to an extended selection process (as in the case of a programme in the Faculty of Medicine and Health Sciences), your second choice of study may be used to apply for accommodation. In this way you will ensure that you are considered for a place in residence, even if – in the end – you are not accepted for your first choice of study.
• The residence placement procedure is finalised by 30 October. By this date you should know whether you have a place in a residence. If your application is unsuccessful, we will confirm this after 30 October.

• Once you have been placed in a residence, switching between residences will not be allowed.

How we allocate places in residences
The University allocates places in residences in a series of rounds, according to academic merit and diversity, as indicated in our residence placement policy (see our website). Excellence strengthened by diversity is an important principle in the University’s residence placement policy, and this principle is continually considered, along with other stipulations. The University believes that exposure to diversity plays an important role in producing excellent students.

Diversity factors: (i) students’ citizenship – South African and foreign; (ii) students’ language of preference (Afrikaans, English and other); (iii) students’ ethnicity (brown, black, Indian and white); (iv) first generation Maties and Maties who have a multi-generational history of University attendance; and (v) students’ of varying economic status (students who are financially self-sufficient and those who, on the basis of the means test, come into consideration for support bursaries).

In the first round of placement, academic merit is the main consideration, and, in the second round of placement, the aim is to realise the desired diversity profile while still taking academic merit into consideration.

Approximate cost of University accommodation
Approximate costs for double room tariffs per year may be estimated from current 2018 prices listed below. Bear in mind that boarding costs might increase by about 10% annually. Keep an eye on our website for the official prices for 2019.

Women  R35 100 (double room)
Men   R35 850 (double room)

Meals: There are various options (e.g. three meals per day, seven days per week, cost R20 900 per year).
PRIVATE ACCOMMODATION
Students who do not live in a residence on campus are part of the Private Student Organisation (PSO) and are allocated to one of its ten wards. The PSO wards are organised together with residences into six groups (or clusters). For each of these clusters, a building (called a hub) is being erected, where day students can spend free time, and where they too will have the opportunity to enjoy the benefits of residential life, such as the availability of network points to connect a computer to the University’s network, its electronic resources and the internet. In line with residences, the PSO wards offer support to students through a mentor programme and a variety of activities. The cluster hubs Wimbledon and amaMaties are already completed and operational.

Each cluster has one or two open dining halls in residences where PSO students are welcome to book and enjoy meals.

Students in the Medicine and Health Sciences fall under the Osler Tygerberg ward. Students on the Stellenbosch campus can expect a letter or an SMS from their PSO ward confirming their ward allocation, or they can check on the website given below.

Enquiries about accommodation
Client Services Centre:
021 808 9111
info@sun.ac.za

Website:
www.maties.com > ‘Accommodation’; and for our placement policy: > ‘Residence application and placement process’; or to see whether you were successful with your application: > ‘Residence status’

ACADEMIC SUPPORT
Extended degree programmes
The extended degree programmes are full status programmes that provide an alternative route to academic success. Extended degree programmes 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 procedure for its extended degree programmes. Usually candidates are eligible for such programmes when their results fall just short of the admission requirements or selection criteria, and when they qualify in terms of their socio-economic status.

See under the faculties for more information, or contact our client services centre.

SciMathUS bridging programme
SciMathUS is a one-year university preparation programme that offers tuition to educationally disadvantaged learners. These learners have passed Grade 12, but struggle to meet the minimum admission requirements set by highly selective degree programmes.

Learners choose between a Science and Accounting stream. If you choose the Science stream, you rewrite the NSC examination for Mathematics and Physical Sciences. If you choose the Accounting stream, you take Accounting and Introduction in Economics with the Extended Degree Programme students, which are assessed by the University. You rewrite the NSC examination for Mathematics only. With improved results, you may then reapply to be admitted to higher education!

In both streams, to set you up for success in higher education, you will also do Introduction to University Mathematics and acquire additional skills.

The programme supports Stellenbosch University’s diversity goal and is funded mostly by the private sector. For programme information, admission requirements and closing dates for applications, visit our website or Facebook page.

SciMathUS enquiries:
Adele Pool  021 808 3032
Noni Kulati  021 808 2301
E-mail:
bridging@sun.ac.za

Website:
Facebook:

WELCOMING PROGRAMME
After you have received conditional admission to the study programme for which you have applied, the University will provide you with details about when you should report at Stellenbosch for the Welcoming Programme (which is compulsory), and how to register as a student. This information will also be made available to you on our website from November onwards.
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22 FACULTY OF SCIENCE

27 FACULTY OF THEOLOGY
Admission and selection: Applicants who meet the minimum requirements for their chosen programme, are selected according to the Faculty’s selection guidelines available on www.maties.com.

AGRICULTURAL ECONOMICS AND MANAGEMENT

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

BAGricAdmin (3 years)

Field of study:
- Agribusiness Management

Career opportunities
Manager in agribusiness, focusing on crop or animal production. Agricultural economist at financial institution or marketing organisation (valuations, risk analyses, business plans, cash flow); manager at public sector or international organisations dealing with economic development (e.g. the World Bank). Manager of food-processing concerns.

BScAgric (4 years)

Fields of study:
- Agricultural Economic Analysis
- Agricultural Economic Analysis and Management
- Agricultural Economic Analysis and Management with Food Science
- Agricultural Economics and Food Science

Career opportunities
Researcher in macroeconomic analysis (impact assessment and design of agricultural and food policy); agricultural economist at a financial institution or marketing organisation (valuations, risk analyses, business plans, cash flow); manager at public sector or international organisations dealing with economic development (e.g. the World Bank). Manager of food-processing concerns.

AGRICULTURAL PRODUCTION AND MANAGEMENT

Minimum admission requirements
- Write the NBTs AQL (all students) and, if you take Mathematics as a school subject, also MAT
- An NSC aggregate of at least 55% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 50% OR Mathematical Literacy 60%
- Physical Sciences (Physics and Chemistry) 50% OR Life Sciences 50% OR Agricultural Sciences 50%

BAgric in Agricultural Production and Management: Elsenburg (3 years)

This programme is offered in collaboration with the Cape Institute for Agricultural Training: Elsenburg. Students reside on the Elsenburg campus where they receive all their training. For more information, phone the Institute on 021 808 7700.

Fields of study:
- Animal Production
- Plant Production
- Plant and Animal Production
- Cellar Technology
Career opportunities
General agricultural manager, agricultural production manager, winemaker, cellar manager, agricultural extension officer, marketer; and careers in research and education and training in your chosen study field.

ANIMAL PRODUCTION SYSTEMS

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

BScAgric (4 years)

Field of study:
- Animal Science

Career opportunities
Consultant, entrepreneur, manager, technician, extension officer or production manager in animal sciences or in related industries (such as animal nutrition, meat science, animal physiology, animal reproduction and animal breeding), or in the aquaculture industry, stock-farmer and game farmer.

CONSERVATION ECOLOGY AND ENTOMOLOGY

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

BSc in Conservation Ecology (4 years)

Career opportunities
Careers in environmental impact assessment and monitoring, restoration ecology, conservation biology, game farm management, ecotourism, sustainable agriculture, forestry and organic plant management, community-based natural resource management and research into conservation biology.

FOOD PRODUCTION SYSTEMS

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

BSc in Food Science (4 years)

Career opportunities
Food scientists are employed to do quality assurance, product development, research, technical support, sales, purchasing and production management in the food industry.

FORESTRY AND WOOD SCIENCES

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 60%

For the field of study Forestry and Natural Resources Sciences, also:
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

For the field of study Wood and Wood Products Sciences, also:
- Mathematics 70%
- Physical Sciences (Physics and Chemistry) 60%
BSc in Forestry (BScFor) (4 years)

Fields of study:
- Forestry and Natural Resources Sciences
- Wood and Wood Products Sciences

Career opportunities
Forest and Natural Resources Sciences: Work as forestry expert, timber grower; environmental planner; forest researcher; forester; extension officer or consultant, logistics manager; tree breeder; rural development advisor and entrepreneur.
Wood and Wood Products Sciences: Work as wood products expert, manager in a production plant for wood products, product development manager; quality assurance manager; consultant and wood scientist.

GRAPE AND WINE SCIENCES

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%
- Physical Sciences (Physics and Chemistry) 50%

BScAgric (4 years)

Field of study:
- Grape and Wine Sciences (previously called Viticulture and Oenology)

Career opportunities
Winemaker; viticulturist, researcher; production manager; marketer; technician, consultant or entrepreneur in wine-related industries.

PLANT AND SOIL SCIENCES

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics 60%

Career opportunities
Careers as described above for each programme.

• Physical Sciences (Physics and Chemistry) 50%

If you wish to take Soil Science and Chemistry as major subjects at university:
• Mathematics 70%

BScAgric (4 years)

Fields of study:
- Crop Production Systems
- Crop Protection and Breeding
- Soil and Water Management

Career opportunities
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 in the agricultural industry or in agriculture-related industries, such as consultant, entrepreneur, manager; extension officer; technician or researcher.

EXTENDED DEGREE PROGRAMMES

An extended degree programme entails one extra year of study. Except for BAgic in Agricultural Production and Management: Elsenburg, all the programmes above are also available as extended degree programmes.

Minimum admission requirements
- An NSC aggregate of at least 60% (excluding Life Orientation)
- English OR Afrikaans (Home Language or First Additional Language) 50%
- Mathematics between 55% and 59,9%
- Physical Sciences (Physics and Chemistry) between 45% and 49,9%
- NBT results between 33% and 47%

For the BScAgric with Soil Science and Chemistry as major subjects, as above BUT:
• Mathematics between 60% and 69,9%

For the BScFor (Wood and Wood Products Sciences), as above BUT:
• Mathematics between 60% and 69,9% AND
• Physical Sciences (Physics and Chemistry) between 55% and 59,9%

Career opportunities
Careers as described above for each programme.
Our general programmes give you a broad background for a variety of careers in related fields. Our specialised programmes are focused on specific careers. The programmes marked with a # are also available as extended degree programmes.

General admission requirements
- Write the NBT AQL
- An NSC aggregate of at least 65% (excluding Life Orientation)
- See further admission requirements under the programmes
- Also see the Faculty’s selection guidelines on www.maties.com > ‘Apply’

GENERAL DEGREE PROGRAMMES

BA in Humanities# (3 years)

Routes:
- Human Thought, Language, Culture and Art
- People and Society

Minimum admission requirements
- Home Language 50%
- First Additional Language 40%
If you take Socio-Informatics as a university subject, then also:
- Mathematics 50% OR Mathematical Literacy 70%

Career opportunities
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 Language and Culture# (3 years)

Minimum admission requirements
- Home Language 60%*
- First Additional Language 60%*
*Raised requirements subject to approval. Please keep an eye on www.maties.com for updates.

Career opportunities
Careers 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)

Minimum admission requirements
- Home Language 50%
- First Additional Language 40%
If you take Socio-Informatics as a university subject, then also:
- Mathematics 50% OR Mathematical Literacy 70%
If you take Economics as a university subject, then also:
- Mathematics 60%

Career opportunities
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, policy analysis and consultation.
SPECIALISED DEGREE PROGRAMMES

BA in Development and the Environment# (3 years)

Minimum admission requirements
• Home Language 50%
• First Additional Language 40%
If you take Socio-Informatics as a university subject, then also:
• Mathematics 50% OR Mathematical Literacy 70%
If you take Economics as a university subject, then also:
• Mathematics 60%

Career opportunities
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)

Routes:
- Acting and Performance Training
- Technical and Management Training

Minimum admission requirements
• Home Language 50%
• First Additional Language 50%
• Complete the required written assignment and hand it in by 15 August
• Candidates must be available for auditions and/or interviews at the Drama Department in Stellenbosch at the end of September

Selection information
Selection requirements and entrance assignment available at www.maties.com > ‘Apply’ > ‘Application documents’ or at amm@sun.ac.za.

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

BA in Human Resource Management# (3 years)

Minimum admission requirements
• Home Language 50%
• First Additional Language 40%
• Mathematics 50%*
If you take Statistics as a university subject, then:
• Mathematics 60%*
*Pending approval, these requirements are to be scrapped. Keep an eye on www.maties.com for updates.

Career opportunities
Development manager, human resource manager, psychometrician, management consultant and labour relations practitioner. Leads to postgraduate studies in Human Resource Management or Industrial Psychology.

BA in International Studies# (3 years)

Minimum admission requirements
• English Home Language 50% OR English First Additional Language 60%

Career opportunities
The diplomatic service, parliament, the National Intelligence Agency, the tourism industry, international journalism, public liaison work, the import and export industry, and institutions that promote commerce and investment (e.g., Wesgro), international organisations (such as the UN, Amnesty International, World Economic Forum).

BA in Law (3 years)

See BA (Law) under Faculty of Law.
Bachelor of Music (BMus) (4 years)

**Minimum admission requirements**
- Home Language 50%
- First Additional Language 40%
- 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
- Candidates must be available for an audition and theoretical test at the Department of Music in Stellenbosch

*If you take Mathematics as a university subject, then also:*
- Mathematics 70%

**Selection information**
During the above-mentioned audition and theoretical test, candidates must demonstrate proof of the required standards. On receiving your application, we send you information about the audition. Further information at mdn@sun.ac.za.

**Career opportunities**
Music educator (lecturer or teacher), performing artist, accompanist, music director, musicologist, composer or conductor. Music-related professions such as journalist (BAHons in Journalism), 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)

**Minimum admission requirements**
- Home Language 50%
- First Additional Language 40%
- 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
- Candidates must be available for an audition and theoretical test at the Department of Music in Stellenbosch

*If you take Mathematics as a university subject, then also:*
- Mathematics 70%

**Selection information**
During the above-mentioned audition and theoretical test, candidates must demonstrate proof of the required standards. On receiving your application, we send you information about the audition. Further information at mdn@sun.ac.za.

**Career opportunities**
Private music teacher; 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.
Diploma in Practical Music (3 years)

Minimum admission requirements
- NBTs not to be written
- A National Senior Certificate with at least 40% in each of the four 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
- Candidates must be available for an audition and theoretical test at the Department of Music in Stellenbosch

Selection information
During the above-mentioned audition and theoretical test, candidates must demonstrate proof of the required standards. On receiving your application, we send you information about the audition. Further information at mdn@sun.ac.za.

Career opportunities
Instrumental or singing teacher, choral conductor, church organist, performing artist or orchestral musician.

Advanced Diploma in Practical Music (1 year)

Minimum admission requirements
- NBTs not to be written
- Diploma in Practical Music with Music Studies S 221 and 261
- Candidates must be available for an audition at the Department of Music in Stellenbosch

Selection information
Selection based on an audition, during which candidates must demonstrate proof of the required standards. On receiving your application, we send you information about the audition. Further information at mdn@sun.ac.za.

Career opportunities
Performing artist, accompanist, music teacher or conductor. Studies might allow admission to BMus with specialisation in Music Education, Musical Performance in Chamber Music or Accompaniment, Solo Singing or Solo Performance, Musicology, Composition, Music Technology, Church Music, Ethnomusicology or Choir Conducting.

Higher Certificate in Music (1 year)

Minimum admission requirements
- 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
- Candidates must be available for an audition and theoretical test at the Department of Music in Stellenbosch

Selection information
Selection based on an audition and theoretical test, during which candidates must demonstrate proof of the required standards. On receiving your application, we send you information about the audition. Further information at mdn@sun.ac.za.

Career opportunities
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.

BA in Political, Philosophical and Economic Studies (PPE) (3 years)

Minimum admission requirements
- Home Language 50%
- First Additional Language 40%
- Mathematics 60%

Career opportunities
Manager, journalist, business or investment analyst, stockbroker, entrepreneur, diplomat, civil servant, researcher, consultant or academic.

Bachelor of Social Work# (4 years)

Minimum admission requirements
- Home Language 50%
- First Additional Language 40%
Career opportunities
Social worker in state departments, non-profit organisations, facilities for persons with special needs, schools, hospitals, occupational settings, and in private practice. Can also practice internationally.

BA in Socio-Informatics# (3 years)

Minimum admission requirements
• Home Language 50%
• First Additional Language 40%
• Mathematics 60%

If you take Mathematics as a university subject, then:
• Mathematics 70%

Career opportunities
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.

BA in Sport Science (3 years)

Minimum admission requirements
• Home Language 50%
• First Additional Language 40%
• Mathematics 40% OR Mathematical Literacy 70%
• Physical Sciences 40% OR Life Sciences 50%
• Complete the Department's selection questionnaire and medical history form and submit them along with your application
• Attendance of and participation in sport practicals are compulsory

Selection information
Place for 80 students. The Department's above-mentioned selection questionnaire and medical history form are available at 021 808 9111 or www.maties.com > ‘Apply’ > ‘Application documents’. "The Faculty"

Career opportunities
Sports coaching, recreation leadership, sports administration, sports marketing, sports management, sport for persons with disabilities, the fitness industry, biokinetics (on completing honours degree and internship), sport research and teaching (physical training). Sport Science can be combined with Geography and Environmental Studies, Psychology, Afrikaans en Nederlands or English Studies.

BA in Visual Arts (4 years)

Routes:
- Fine Arts
- Jewellery and Metal Design
- Visual Communication Design

Minimum admission requirements
• Home Language 50%
• First Additional Language 40%
• Hand a prescribed portfolio of art in by 30 September

Selection information
Information about the above-mentioned portfolio of art is available at www.maties.com > ‘Apply’ > ‘Application documents’ or at 021 808 2508 (mornings only).

Career opportunities
Professional fine artist, art teacher, graphic designer, illustrator, jewellery designer and manufacturer, art critic or art theorist. Related professions: stage designer, book designer, curator, museum and art gallery custodian, 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.

#Extended Degree Programmes (4 years)

Available in all programmes marked with a #.

Minimum admission requirements
• An NSC aggregate of at least 60–64.9% (excluding Life Orientation)
• Students are selected for the extended degree programmes at the discretion of the Faculty

Career opportunities
Careers as described above for the various programmes.
Language of instruction: The Faculty offers only one programme, the BAcc degree programme, in English and Afrikaans in separate streams from the first to the final year (parallel-medium instruction). The first year of all other undergraduate programmes are presented in English and Afrikaans (parallel-medium instruction), with some exceptions where modules are offered in only English. In the second and third years the language of instruction differs from module to module and can be either one of, or a combination of, the following: parallel medium (Afrikaans and English classes are presented in separate groups); English, with support in Afrikaans; or in exceptional cases English only. (See “Language at the University” on page vi).

SELECTION

In the first place, candidates must meet the requirements of the programme they are applying for. Note that admission requirements are amended annually. For the latest information on admission requirements and selection guidelines, please visit www.maties.com > ‘What can I study?’ > ‘Undergraduates’ > ‘Economic and Management Sciences’.

According to the Faculty’s selection guidelines, your application will be considered based on the grounds of your selection mark and your Grade 11 marks (or your Grade 12 marks if you have already matriculated). The selection mark for the 2019 intake is 75, but is subject to change according to demand and whether place is available in the programme. This arrangement excludes BAccLLB and BCom (Law).

Selection mark: \((2 \times \text{Mathematics average} + \text{average of 5 other subjects, excluding Life Orientation}) \div 7\)

Note: Where applicants present more than six school subjects from the list designated for university admission (page vii), the five highest marks are used for the average of the “other subjects”. For applicants who present fewer than six subjects, the following calculation will be used: \((2 \times \text{Mathematics average} + \text{averages of 3 other subjects}) \div 5\).

DEGREE PROGRAMMES WITH A FOCUS ON LAW

For admission requirements and career opportunities, see under the Faculty of Law:

- BCom (Law)
- BAccLLB

BROAD DEGREE PROGRAMMES WITH VARIOUS CAREER FOCUSES

- BCom (3 years)

Construct your own curriculum from a wide choice of subjects, which may include a subject from the Faculty of Arts and Social Sciences.

Minimum admission requirements

- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

If you want to take Mathematics and/or Computer Science as university subjects:

- Mathematics 70%
Career opportunities
Become 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.

BCom (Economic Sciences) (3 years)

Focal areas (choose in second year):
- Economics (Econometricians)
- Economics (Economic and Management Consultants)
- Economics (Financial Sector)
- Transport Economics

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

Career opportunities per focal area
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, along with 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.

BCom (Management Sciences) (3 years)

This programme is available as an extended degree programme (EDP), entailing one extra year of study. Only socio-economically and educationally disadvantaged candidates will be considered for the limited space in the EDP.

Focal areas (choose in second year):
- Agricultural economics
- Entrepreneurship and Innovation
- Financial Management
- Human Resource Management
- Information Systems Management
- Logistics Management
- Marketing Management
- Public and Development Management
- Quantitative Management

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

Career opportunities per focal area
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.

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. Follow a career as 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. Follow a career as personnel manager, market researcher, training manager, consultant or labour relations manager. (For statutory registration as Psychometrist or Industrial Psychologist, see BCom (Industrial Psychology) on page 12.)

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 or services. Possible careers are: marketing manager, sales manager, client manager and advertising manager.

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.

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

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**BCom (Mathematical Sciences) (3 years)**

**Focal areas (choose in second year):**
- Computer Science
- Financial Risk Management
- Mathematical Statistics
- Operations Research

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 70%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

**Career opportunities per focal area**

**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. Follow a career as 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 agricultural sectors.

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**BCom (International Business) (4 years)**

The third year includes an international exchange semester. The language of instruction is English.

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 80% (excluding Life Orientation)
- Mathematics 70%
- English Home Language 70% OR English First Additional Language 80%
- Any additional language 70%

**Career opportunities**
Interaction with international students and the global marketplace prepares you for a role in international firms as marketing manager, financial manager, entrepreneur or innovation manager.
Diploma in Sustainable Development (3 years)

The language of instruction is English.

Minimum admission requirements
- National Benchmark Tests not to be written
- National Senior Certificate aggregate of at least 60% (excluding Life Orientation)
- Mathematics 50% OR Mathematical Literacy 50%
- English Home Language 50% OR English First Additional Language 60%
- Life Sciences 60%
- 60% in one of the following; creative arts (i.e. Engineering Graphics and Design, Visual Arts), Agriculture, Business Studies, Economics or Physical Sciences

Career opportunities
Entrepreneur in sustainable development through social enterprises, education, tourism, renewable energy, crafts or services towards community development.

BCom (Industrial Psychology) (3 years)

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

Career opportunities
Statutory registration with the Health Professions Council of South Africa (HPCSA) as a Psychometrist (independent practice) is possible after obtaining the BCom (Industrial Psychology) and BComHons (Industrial Psychology) 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 MCom (Industrial Psychology) programme, an internship of 12 months and a professional board exam.

BAcc* (3 years)

Classes are in Afrikaans and in English (parallel-medium instruction) up to final year.

Minimum admission requirements
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 70% (excluding Life Orientation)
- Mathematics 70% OR Mathematics 60% and Accounting 70%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

Career opportunities
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 and have sufficient work experience. Successful university studies may result in exemptions from many of these examinations.
A chartered accountant can work as an auditor for an auditing firm. This profession has statutory protection. Other jobs in financial management, management accounting or tax consulting may also be considered.

**BCom (Management Accounting)* (3 years)**

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

**Career opportunities**
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.

**BCom (Financial Accounting)* (3 years)**

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

**Career opportunities**
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.

**BCom (focal area Financial Planning) (3 years)**

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

**Career opportunities**
Careers as financial advisors in banking, insurance and other industries, and in own enterprise. For the internationally recognised qualification of Certified Financial Planner (CFP), follow up with the Postgraduate Diploma in Financial Planning and write the entrance examination.

**BCom (focal area Investment Management) (3 years)**

The curriculum is based on that of the sought-after international Chartered Financial Analyst.

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Mathematics 60%
- English Home Language 50% OR Afrikaans Home Language 50% OR English First Additional Language 60% OR Afrikaans First Additional Language 60%

**Career opportunities**
Careers include investment analyst, portfolio manager, securities broker and trader.
Language of instruction:
Classes are mainly taught bilingually in English and Afrikaans. First-year modules mostly use translation services or parallel-medium teaching.

SELECTION

Applicants who meet the minimum requirements of the BEd programmes are selected according to the Faculty’s selection guidelines. See www.maties.com > ‘Apply’ > ‘Admission and selection requirements’.

Minimum admission requirements for BEd

• Write the NBT AQL
• An NSC or IEB aggregate of at least 55% (excluding Life Orientation)
• Mathematics 40% OR Mathematical Literacy 60%

AND

Learners who were taught in English:
• English (Home Language or First Additional Language) 60%
• Afrikaans OR isiXhosa (Home Language or First Additional Language) 50%

OR

Learners who were taught in Afrikaans:
• Afrikaans (Home Language or First Additional Language) 60%
• English OR isiXhosa (Home Language or First Additional Language) 50%

Career opportunities

Teacher for Grades R to 3.

You may continue with your studies in Foundation Phase Education by taking BEdHons (Foundation Phase Education) after which you may specialise in curriculum development, school management or education policy (MEd). Or, with further training, you can become a remedial teacher (BEdHons and MEd in Educational Support) or an educational psychologist (MEd (Psych)).

BEd (Intermediate Phase Education) (4 years)

You take language modules and gain practical experience as for the BEd (Foundation Phase Education). In your first year you take the Mathematics teaching module and choose two school subjects to teach from the following teaching modules:
• Life Skills
• Natural Sciences (ed)
• Social Sciences (ed)
• Mathematics (ed)

From the second year on you continue with the two teaching modules of your choice.

Career opportunities

Primary school teacher for Grades 4 to 7 with the competence to teach two intermediate school subjects and two languages.

You may specialise in curriculum development, school management or education policy by taking BEdHons and MEd in one of these fields of study. Or, with further training, you can become a remedial teacher (BEdHons and MEd in Educational Support) or an educational psychologist (MEd (Psych)).
**Postgraduate Certificate in Education (PGCE) (1 year)**

You choose one or preferably two teaching modules. All teaching modules are not necessarily presented every year. A minimum of five students per module is usually required.

**Minimum admission requirements for PGCE**
- A degree from one of the other faculties with one or two school subjects.
- For the PGCE teaching modules and their requirements, see the Faculty of Education Calendar on www.maties.com.

**Career opportunities**
High school teacher in two subjects (or in one subject with additional study in this subject).

Specialisation with advanced studies as for BEd above. Remedial teacher (obtain also BEdHons and MEd in Educational Support) or educational psychologist (obtain also MEd (Psych)).
The BEng programmes have been accredited by the Engineering Council of South Africa (ECSA) for registration of graduates as Professional Engineer after acquiring the relevant experience in practice.

**LANGUAGE OF INSTRUCTION**

Details of the undergraduate language offering in the BEng programmes can be obtained via the Faculty’s website. See www.sun.ac.za/english/faculty/eng/ > ‘Language’. Broadly, it entails that all lectures are available at least in English, and in most of the modules of the first three semesters also in Afrikaans (in parallel sessions). Question papers are available in both English and Afrikaans and students may write assignments and answer question papers in their preferred language.

**Minimum admission requirements for the four-year BEng programmes**

- Write the NBTs AQL and MAT
- An NSC aggregate of at least 70%
- Mathematics 70%
- Physical Sciences 60%
- English Home Language 40% OR English First Additional Language 60% OR English First Additional Language 50% TOGETHER WITH EITHER Afrikaans Home Language 40% OR Afrikaans First Additional Language 60%
- Over and above the aforementioned, applicants are also subject to selection according to selection criteria.

**Selection criteria for the four-year BEng programmes**

According to the Faculty’s selection guidelines (see www.maties.com), your selection mark is calculated by using the score (out of 100) of your Grade 11 subjects (for conditional selection) or Grade 12 subjects (for final selection) as follows:

\[
\text{Selection mark} = \text{Mathematics percentage} + \text{Physical Sciences percentage} + (6 \times \text{Matric average})
\]

The Matric average is calculated from the 6 best Matric subjects’ percentages (excluding Life Orientation). The maximum score is 800. Note that Mathematics and Physical Sciences normally also contribute to the average.

Over the last few years a selection mark of 600 or more gave students a good chance on admission to certain programmes, but in others 630 or more were required. In other words, to have a reasonable chance of selection for some programmes, your mark for Mathematics, as well as your NSC average, should be above 76, and Physical Sciences above 65, while for other programmes Mathematics and average marks of at least 80, together with a Physical Sciences mark of at least 70, will be needed.

**Extended degree programmes (EDPs) (5 years)**

All our programmes are available as EDPs, which require one extra year of study. A limited number of applicants who meet the minimum requirements of the EDPs will be considered for the EDPs. Preference will be given to candidates from educationally disadvantaged backgrounds.
**BEng (Chemical) (4 years)**

**Career opportunities**
Chemical engineers specialise in the large-scale operation of processes by which various consumer products are produced, such as chemicals, pharmaceutical products, fertilisers, fuels, metals and other materials. Chemical engineers are also involved where effluents and waste materials are processed and recycled.

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**BEng (Civil) (4 years)**

**Career opportunities**
Civil engineers are responsible for large, permanent works such as irrigation systems, bridges, dams, harbours, canals, airports, roads and streets, pipelines, sewerage systems, railways, structures of various kinds and structure foundations, storm water systems, tunnels, towers, water supply systems, and various kinds of heavy construction work.

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**BEng (Electrical and Electronic) (4 years)**

**Career opportunities**
Electrical engineers are responsible for the generation, transmission and conversion of electrical energy for example factories and municipalities. Electronic engineers focus on the control of robotic systems; the collection, processing and dissemination of information by computer and communication networks, such as cell phone networks; and the design of computers and large software systems.

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**BEng (Industrial) (4 years)**

**Career opportunities**
The main branches of Industrial Engineering are manufacturing technology and operational systems design. It involves facets that are important in the modern industrial and service environments, such as quality assurance, engineering economics, operations research, industrial ergonomics and information technology.

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**BEng (Mechanical) (4 years)**

**Career opportunities**
Mechanical engineering is characterised by the motion and transfer of energy, for example in vehicles, aeroplanes, vessels, missiles, cooling systems, power stations and engines, but also includes machines used in all branches of the economy, such as process plants and manufacturing industries.

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**BEng (Mechatronic) (4 years)**

**Career opportunities**
Mechatronic engineers focus on systems characterised by close integration of mechanical components, electronic sensors, mechanical and electrical actuators and computer controllers. Examples of mechatronic systems include electronic engine control systems, robot systems and automated assembly lines.
Faculty of Law

Language of instruction:
Classes are taught mainly bilingually in English and Afrikaans. All information is conveyed in English with introductions, summaries and key concepts in both English and Afrikaans.

**SELECTION**

Applicants who meet the minimum requirements of a programme are selected according to the Faculty’s selection guidelines (see under www.maties.com > ‘Apply’ > ‘Admission and Selection Requirements’).

**LLB (four-year)**

**Minimum admission requirements**
- Write the NBT AQL before the end of June
- An NSC aggregate in six subjects of at least 70% (excluding Life Orientation)
- English or Afrikaans Home Language 60% OR English or Afrikaans First Additional Language 70%

*If you wish to take Economics as a university subject, then also:*
- Mathematics 60%

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

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

**BA (Law) (3 years)**

Interfaculty programme: You take modules from the Faculty of Law and the Faculty of Arts and Social Sciences.

**Minimum admission requirements**
- Any bachelor’s degree from a South African university with an aggregate of at least 60% in the final year

**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 pupillage as well as the required practical training and entrance examinations, or alternatively to act as a legal adviser.

**LLB (three-year)**

Taken postgraduate as a second bachelor’s degree.

**Minimum admission requirements**
- An NSC aggregate of at least 70% (excluding Life Orientation)
- English OR Afrikaans Home Language 60%
- First Additional Language 40%

*If you wish to take Economics as a university subject, then also:*
- Mathematics 60%

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

**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 pupillage as well as the required practical training and entrance examinations, or alternatively to act as a legal adviser.

**BCom (Law) (3 years)**

Interfaculty programme: You take modules from the Faculty of Law and the Faculty of Economic and Management Sciences.
Minimum admission requirements

- Write the NBTs AQL and MAT before the end of June
- An NSC aggregate of at least 70% (excluding Life Orientation)
- English or Afrikaans Home Language 60% OR English or Afrikaans First Additional Language 70%
- Mathematics 60%

Career opportunities

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)

Interfaculty programme: You take modules from the Faculty of Law and the Faculty of Economic and Management Sciences.

Minimum admission requirements

- Write the NBTs AQL and MAT before the end of June
- An NSC aggregate of at least 70% (excluding Life Orientation)
- English or Afrikaans Home Language 60% OR English or Afrikaans First Additional Language 70%
- Mathematics 70% OR Mathematics 60% and Accounting 70%

Career opportunities

The BAccLLB 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.

Faculty of Medicine and Health Sciences

Our programmes are accredited for professional registration by bodies such as the Health Professions Council of SA and the South African Nursing Council.

Selection

In the first place, applicants should meet the requirements of the programme they apply for. Applicants are then selected for these programmes on their academic school performance (45% of the selection mark), performance in the NBTs (30% of the selection mark) and on non-academic achievements at high school (Grade 10–12) in fields such as leadership, sport, cultural activities, community service and multilingualism (25% of the selection mark).

Information and additional forms

See the Faculty’s selection guidelines on www.maties.com > ‘Apply’ > ‘Admission and selection requirements’ and download the required forms for each programme > ‘Application documents’.

Closing dates

Applications for MBChB close on 31 May and for our other programmes on 30 June.
MBChB (6 years)

This programme is also offered as an extended degree programme. ±270 candidates are selected (excluding those for extended degree programme).

Minimum admission requirements
- Write the NBTs AQL and MAT by end of June
- An NSC aggregate of at least 70% (excluding Life Orientation)
- Mathematics 50%
- Physical Sciences 50%
- Life Sciences 50%
- Complete the Non-academic Merit Form and submit it along with your application by 31 May

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.

Bachelor of Nursing and Midwifery (4 years)

Note: This programme is subject to approval. See www.maties.com for updates. ±50 candidates are selected.

Minimum admission requirements
- Write the NBTs AQL and MAT by end of June
- An NSC aggregate of at least 50% (excluding Life Orientation)
- Mathematics 40%
- Life Sciences 50%
- Complete the Non-academic Merit Form and submit it along with your application by 30 June

Career opportunities
After an additional year of community service, you will be eligible for registration as a Nurse and Midwife with the South African Nursing Council.

BSc in Dietetics (4 years)

±35 candidates are selected.

Minimum admission requirements
- Write the NBTs AQL and MAT by end of June
- An NSC aggregate of at least 50% (excluding Life Orientation)
- Mathematics 50%
- Physical Sciences 50%
- Life Sciences 50%
- Complete the Non-academic Merit Form and submit it along with your application by 30 June.

Career opportunities
After an additional year of community service, you will be eligible for registration as a Dietitian with the Health Professions Council of SA.

Bachelor of Occupational Therapy (4 years)

±50 candidates are selected.

Minimum admission requirements
- Write the NBTs AQL and MAT by end of June
- An NSC aggregate of at least 50% (excluding Life Orientation)
- Mathematics 40%
- Life Sciences 50%
- Complete the Non-academic Merit Form and submit it along with your application by 30 June.

Career opportunities
After an additional year of community service, you will be eligible for registration as an Occupational Therapist with the Health Professions Council of SA.

BSc in Physiotherapy (4 years)

±55 candidates are selected. Programme also offered as an extended degree programme.
Minimum admission requirements
• Write the NBTs AQL and MAT by end of June
• An NSC aggregate of at least 60% (excluding Life Orientation)
• Mathematics 50%
• Physical Sciences 50%
• Life Sciences 50%
• Complete the Non-academic Merit Form and submit it along with your application by 30 June.

Career opportunities
After an additional year of community service, you will be eligible for registration as a Physiotherapist with the Health Professions Council of SA.

Bachelor of Speech-Language and Hearing Therapy (4 years)

±30 candidates are selected.

Career opportunities
After an additional year of community service, you will be eligible for registration as a Speech-Language Therapist with the Health Professions Council of SA.

Faculty of Military Science

These programmes are presented for selected officers of the South African National Defence Force (SANDF) and other defence forces and 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 by the arm of service he/she has joined. A recommendation is required from the Military Academy Selection Board that takes into account the requirements set by the University and the SANDF for all these programmes.

Language of instruction: English.

BMil in Human and Organisation Development (3 years)

Minimum admission requirements
• A National Senior Certificate (NSC) with at least 50% in each of four school subjects from the list of subjects designated for university admission (see page viii)
• English OR Afrikaans 50%

BMil in Organisation and Resource Management (3 years)

Minimum admission requirements
• A National Senior Certificate (NSC) with at least 50% in each of four school subjects from the list of subjects designated for university admission (see page viii)
• English OR Afrikaans 50%
• Mathematics 40% OR Mathematical Literacy 50%
**BMil in Security and Africa Studies (3 years)**

**Minimum admission requirements**
- A National Senior Certificate (NSC) with at least 50% in each of four school subjects from the list of subjects designated for university admission (see page viii)
- English OR Afrikaans 50%

*If you wish to take Economics as an elective subject at university:*
- Mathematics 40% OR Mathematical Literacy 60%

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**BMil in Technology (3 years)**

**Minimum admission requirements**
- A National Senior Certificate (NSC) with at least 50% in each of four school subjects from the list of subjects designated for university admission (see page viii)
- English OR Afrikaans 50%
- Mathematics 50%
- Physical Sciences 50%

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**BMil in Technology and Defence Management (3 years)**

**Minimum admission requirements**
- A National Senior Certificate (NSC) with at least 50% in four school subjects from the list of subjects designated for university admission (see page viii)
- English OR Afrikaans 50%
- Mathematics 40%
- Physical Sciences 40%

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**Faculty of Science**

Students are encouraged to follow a three-year BSc degree up with an Honours degree. This will enable you to gain recognition (and registration where relevant) as a professional scientist.

**SELECTION**

- Applicants for our study programmes are subject to a selection process (selection policy on www.maties.com > ‘Apply’ > ‘Admission and selection requirements’), based on the prescribed minimum requirements and the number of students that can be accommodated per programme.
- Your final Grade 11 marks will determine whether you will be conditionally selected.

(Conditional selection means that you are selected on condition that your final results in the NSC or equivalent school leaving examination meet the above requirements. Only then you finally qualify for admission.) If you apply after you have passed Grade 12, however, we shall use your NSC or equivalent school leaving examination marks to calculate your selection mark and you may then gain final admittance.
Selection mark: (best language mark + (Mathematics x 2) + subject 1 + subject 2 + subject 3 + subject 4) ÷ 7 (excluding Life Orientation)

- If the subject Physical Sciences is one of your chosen programme’s requirements, then it should be included in the formula.
- The minimum requirements for selection are a selection mark of 65 and programme-specific requirements for Mathematics and Physical Sciences.
- See “Extended degree programmes” further on.

Note on Admission Requirement for Mathematics
The Mathematics requirement for a programme depends on your choice of subjects (curriculum) at university.

If you take Mathematics and Physics as university subjects:
• Mathematics 70%
If you take Mathematics (Bio) and Physics (Bio) as university subjects:
• Mathematics 60%

PROGRAMMES IN THE BIOLOGICAL SCIENCES

BSc in Biodiversity and Ecology (3 years)

Minimum admission requirements
• Write the NBTs AQL and MAT
• Afrikaans OR English (Home Language or First Additional Language) 50%
• Physical Sciences 50%
• Mathematics 60% OR 70% (depending on your choice of subjects – see note on the left)

Career opportunities
Biologist, ecologist, environmental consultant, researcher, environmental impact expert, plant specialist, conservation scientist, environmental educator, teacher*.

BSc in Human Life Sciences (3 years)

Streams:
- Biology
- Biology with Psychology

Minimum admission requirements
• Write the NBTs AQL and MAT
• Afrikaans OR English (Home Language or First Additional Language) 50%
• Physical Sciences 50%
• Mathematics 60% OR 70% (depending on your choice of subjects – see note on the left)

Career opportunities
Physiologist, biochemist, geneticist or psychologist (with the necessary postgraduate qualification), medical representative, laboratory analyst, stem cell researcher, anthropometrist, teacher*.

BSc in Molecular Biology and Biotechnology (3 years)

Minimum admission requirements
• Write the NBTs AQL and MAT
• Afrikaans OR English (Home Language or First Additional Language) 50%
• Physical Sciences 50%
• Mathematics 60% OR 70% (depending on your choice of subjects – see note on the left)

Career opportunities
Forensic expert, biofuel developer, water expert, geneticist. Microbiologist, biochemist or biotechnologist, working on human, plant and animal cells, yeasts, bacteria, fungi and viruses to develop disease-free plants, new medicines, or enzymes useful in industry or mining. Teacher*.
BSc in Sport Science (3 years)

The medical and physical fitness selection forms are available on www.maties.com > ‘Apply’ > ‘Application documents’, or at carienjvr@sun.ac.za, or at 021 808 4723.

Minimum admission requirements
- Write the NBTs AQL and MAT
- Afrikaans OR English (Home Language or First Additional Language) 50%
- Physical Sciences 50%
- Mathematics 60%
- Complete the Department's selection questionnaire and medical history form and submit them along with your application

Career opportunities
Sport coach, sport manager, sport scientist, sport physiologist, work with persons with disabilities, fitness instructor, biokineticist (with the necessary postgraduate qualification), teacher*.

*Teacher: Depending on your choice of subjects, and with a PGCE (page 15), you could teach the following school subjects: Life Sciences, Natural Sciences, Mathematical Literacy and Life Orientation.

PROGRAMME IN THE MATHEMATICAL SCIENCES

BSc in Mathematical Sciences (3 years)

Streams:
- Abstract Mathematics
- Applied Mathematics
- Biomathematics
  Option 1: with Molecular Biology
  Option 2: with Ecology
- Computer Science
- Financial Mathematics
- Mathematics
- Mathematical Statistics
- Operations Research

Minimum admission requirements
- Write the NBTs AQL and MAT
- Afrikaans OR English (Home Language or First Additional Language) 50%
- Mathematics 70%

AND
If you want to take Chemistry or Physics as a university subject:
- Physical Sciences 50%
OR
For the Biomathematics stream:
- Physical Sciences 50%

Career opportunities
Each stream prepares you for a different line of work.

Abstract Mathematics: Lecturer, researcher in interdisciplinary scientific fields that rely more on structural mathematics rather than analytical mathematics. Ideal for teacher*.

Applied Mathematics: Consultant in the engineering industry, programmer, expert in the modelling of dynamic processes, image processing, numerical methods and flow modelling in banking or the engineering or computer industry.

Biomathematics: 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, software developer in the security and banking industries, network specialist, designer of mobile applications for smartphones and tablets, 3D animator for the film industry.

Financial Mathematics: Career opportunities in banking, insurance and with investment institutions.

Mathematical Statistics: Analyse and interpret data for banking and insurance industries, statistician, academic.

Mathematics: Careers requiring sophisticated quantitative skills, such as in the banking, investment and insurance sectors.

Operations Research: Consultant for industry, process or system optimiser, logistics expert in the transportation and provisioning sectors, project developer, planner, researcher, business analyst,
also application possibilities in company farming, mining, forestry, the manufacturing sector, product marketing.

*Teacher*: Depending on your choice of subjects, and with a PGCE (p. 17), you could teach the following school subjects: Mathematics, Mathematical Literacy, Information Technology, Physical Sciences and Life Sciences.

**PROGRAMMES IN THE PHYSICAL SCIENCES**

**BSc in Chemistry (3 years)**

**Streams:**
- Chemistry and Polymer Science
- Chemical Biology
- Textile and Polymer Science

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- Afrikaans OR English (Home Language or First Additional Language) 50%
- Physical Sciences 50%
- Mathematics 70%

**Career opportunities**

*Polymer chemist, materials expert*: Careers in the packaging, paint, adhesives and textile industries, as well as in the manufacturing sector or with suppliers of raw materials.

*Analytical chemist*: Careers concerned with the planning and operation of chemical plants, the development of analytical methods and production processes, marketing of chemicals and scientific instruments, environmental scientist.

*Organic and biochemist*: Forensic analyst, manufacturer of pesticides, pharmaceutical products, cosmetic and fragrance products, chemist working in process and quality control of raw materials and manufactured products.

*Careers in textile industry*: Product developer (prostheses, sportswear; sports equipment, protective clothing), textile scientist (medical textiles, industrial textiles, microfibres, nanofibres), technical sales manager, production manager, quality manager, buyer, researcher.

**BSc in Earth Science (3 years)**

**Streams:**
- Applied Earth Science
- Geo-environmental Science

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- Afrikaans OR English (Home Language or First Additional Language) 50%
- Physical Sciences 50%
- Mathematics 60% OR 70% (depending on your choice of subjects – see note on page 23)

**Career opportunities**

*Geologist, mining geologist, environmental rehabilitation engineer, exploration consultant, environmental geochemist, hydrologist, seismologist, rock expert, marine geologist, applied mineralogist, volcanologist, geophysicist, teacher*.

**BSc in Geoinformatics (3 years)**

**Minimum admission requirements**
- Write the NBTs AQL and MAT
- Afrikaans OR English (Home Language or First Additional Language) 50%
- Physical Sciences 50%
- Mathematics 60% OR 70% (depending on your choice of subjects – see note on page 23)

**Career opportunities**

*GIS (Geographic Information Systems) and earth observation (remote sensing) specialist*: Working for environmental consultancy groups, planning and engineering firms, program development and computer consultancy groups on all levels of government involved in resource and infrastructure management, agencies concerned with natural and human resource development programmes, mineral exploration and mining.

*Teacher*.

*Geographical Information Science (GISc) practitioner*: A BScHons year added complies with the requirements for professional registration as a GISc.
BSc in Physics (3 years)

Streams:
- Laser Physics (Physical), Nuclear Physics, Radiation and Health Physics
- Laser Physics (Biological)
- Theoretical Physics

Minimum admission requirements
- Write the NBTs AQL and MAT
- Afrikaans or English (Home Language or First Additional Language) 50%
- Mathematics 70%
- Physical Sciences 50%

Career opportunities

Nuclear physicist: Research opportunities at the iThemba Laboratory for Accelerator-based Sciences (iThemba LABS) and industries such as Eskom, the CSIR, Sasol, the SABS.

Laser physicist: A career in industries such as optical systems, communication (optical fibres), medicine, ecology (pollution monitoring), criminology (forensic science), defence (control and communication).

Radiation physicist: Monitoring of radiation risks for the Department of Health, nuclear power stations and mines.

Theoretical physicist: Work in the broad fields of information technology, geology, biological sciences and financial sector.

Teacher*.

*Teacher: Depending on your choice of subjects and with a PGCE (p. 15) you could teach the following school subjects: Physical Sciences, Natural Sciences, Mathematics, Mathematical Literacy, Information Technology and Geography.

EXTENDED DEGREE PROGRAMMES

All the BSc programmes above are also available as extended degree programmes (EDPs), involving one extra year of study. Contact Wilma Wagener at ww@sun.ac.za or 021 808 3063.

Minimum admission requirements
- Admission requirements as for each BSc programme
- If you have already been accepted conditionally for a BSc programme, but your final matric results fail to meet only one of the programme’s minimum requirements, you may make a request (by telephone or e-mail) to be considered for admission to the extended degree programme
- Places are limited; preference is given to socio-economically disadvantaged candidates

Career opportunities
As described above for each BSc programme.
**Faculty of Theology**

**Medium of instruction:** Parallel-medium lectures and tutorials in Afrikaans or English as viable, otherwise double-medium lectures and tutorials in Afrikaans and English in the same class.

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**BTh (Bachelor of Theology) (3 years)**

**Minimum admission requirements**
- Write the NBT AQL
- An NSC aggregate of at least 60% (excluding Life Orientation)
- Four school subjects designated for university admission 50% (see page viii)

**Career opportunities**
Become a youth worker, counsellor or community worker.

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**BDiv (Bachelor of Divinity) (4 years)**

**Minimum admission requirements**
- Write the NBT AQL
- An aggregate of at least 60% for the NSC (excluding Life Orientation)
- Four school subjects designated for university admission 50% (see page viii)

**Career opportunities**
To become a minister in the Dutch Reformed Church or Uniting Reformed Church complete the BDiv and the MDiv. Dutch Reformed Church candidates also need to obtain the Postgraduate Diploma in Theology (Christian Ministry). Presbyterian, Anglican and Volkskerk ministry candidates are trained further by their denominations.

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**Extended Degree Programmes (+1 year)**

Candidates for the BTh and the BDiv may come into consideration for the extended degree programme, which entails that the modules of the first year are spread over two years.

**Minimum admission requirements**
- An NSC aggregate of at least 55% but below 60% (excluding Life Orientation)
- An interview with the Dean or a representative

**Career opportunities**
As for the above programmes respectively.