

**NELSON MANDELA**  
UNIVERSITY



**Undergraduate Programmes**

General Information & Admission Requirements

**2019**

**100 YEARS OF MANDELA**

# Welcome

Your decision to consider a university education and indeed, enrolling at Nelson Mandela University, may well be one of the most significant decisions of your career.

As you will see from this guide, Nelson Mandela University offers you an ideal environment and facilities, excellent learning opportunities, a wide spectrum of beyond-the-classroom activities and a solid values-driven base on which and in which to pursue your future dreams.

We take particular pride in bearing the iconic name of Nelson Mandela, the late legendary statesman who transformed this country through his unwavering commitment for a more just and equal society. It is a quest that our new generation university is determined to continue.

While we have the widest range of academic and professional programmes – from diploma-level through to doctorates – in the Eastern Cape, and offer all the modern facilities for a conducive learning environment, we also have a deep moral responsibility to live the legacy of Nelson Mandela.

Nelson Mandela recognised the importance of education as a force for good, and so we commit to being a destination of choice for those who are:

- Prospective pioneering change agents for a better world;
- Committed to creating jobs in an entrepreneurial economy;
- Inspired by a deep need to serve and give back.

We wish to honour Nelson Mandela – especially in the centenary year of his birth - by leading our university into a new era of transformation, innovation, development and change.

We invite you to be part of this exciting journey as a future Mandela student in growing your knowledge and understanding, and in seeking solutions with the potential to radically improve the quality of human conditions and contribute towards a more sustainable planet.

We hope to welcome you as part of the Nelson Mandela University family.

***Prof Sibongile Muthwa***  
*Vice-Chancellor*



# About Nelson Mandela University

Nelson Mandela University is the only university in the world that carries the name of Nelson Rolihlahla Mandela. The University embraces Nelson Mandela's challenge to be "caring, responsible and innovative", and recognises the importance of continuously growing and adapting in the pursuit of knowledge and lifelong learning. We are committed to providing a welcoming and inspiring environment that is supportive, innovative, diverse and safe. Our students need to feel they are in a place of learning and discovery, founded on strong, egalitarian values that encourage them to express themselves, stretch themselves, and seek new solutions for a better world.

***The University embraces Nelson Mandela's challenge to be "caring, responsible and innovative", and recognises the importance of continuously growing and adapting in the pursuit of knowledge, emancipation and lifelong learning.***

The university boasts more than a century of experience in quality higher education, research and technological innovation. We unite the best traditions of both the academic and technological worlds – from entrance level (certificate) through to research level (PhD).

- We are the largest higher education institution in the Eastern and Southern Cape;
- Over 27 000 students are enrolled on seven different campuses – six in Nelson Mandela Bay (Port Elizabeth), and one in George;
- Programmes are housed within seven faculties (Arts; Business & Economic Sciences; Education; Engineering, the Built Environment & Information Technology; Health Sciences; Law and Science), and in some cases, programmes are duplicated on more than one campus;
- The university's George Campus is situated at the foot of the Outeniqua Mountains in the picturesque coastal town of George.

With their spectacular natural surroundings – from beaches to mountains to game reserves – Nelson Mandela Bay and George are ideal places to spend your student years, offering all the advantages of city living in a friendly and safe environment.

## Student services

A wide range of student services and support facilities are offered on university campuses to assist you in every aspect of student life – from what to study, to finding suitable employment after graduation. The university offers a variety of social and cultural activities, which means you can have fun while you study. There is an extensive range of sport codes, associations, societies, clubs and facilities, allowing you to make new friends, interact with your fellow students and explore subjects of mutual interest.

### • **Library and Information Services**

Nelson Mandela University has a network of well-stocked libraries, computer laboratories, and student learning centres which enable students to obtain quality information resources and services required to excel in their various academic courses. These centres are located on all campuses, and also offer students with a quiet space for studying.

### • **Campus Health Service**

Students have access to a comprehensive primary health care service on every campus, and qualified medical personnel to assist with any health matters which may arise. All services are rendered by registered health care professionals eg. professional nurses, medical doctors and registered counsellors.

### • **Student Counselling, Career & Development Centre (SCCDC)**

The Student Counselling, Career & Development Centre (SCCDC) helps students with career choices, job-seeking skills, and any social, personal or academic problems they may have. The centre offers advice in areas such as time management, study methods, personal, social and emotional wellness, as well as career planning and employment assistance.

### • **Student Development & Governance (SDG)**

This department contributes towards the holistic development of students. The core functions of this department are the training and development of student leadership, the coordination of student life & events, and supporting student governance structures such as the Student Representative Council (SRC), the Student Housing Council; faculty representatives, the Sports Council, Oppidani and Rag. They also provide students with advice on the various student societies that you could join.

### • **Arts, Culture & Heritage Unit**

The Department of Arts and Culture focuses on the holistic development of students by creating opportunities for their participation in the arts. Arts and Culture provides an environment in which students are able to exercise and develop their need for cultural and artistic expression. You are provided with the opportunity to express your talents by joining a wide range of interactive, cultural and active societies. These societies are diverse and vary from performing arts, dancing, music, drama and choirs.

### • **Student Representative Council (SRC)**

The SRC is elected annually in a democratic election to represent the interest of students. The SRC is the only body which the university officially recognises as speaking on behalf of the students.

### • **Oppidani (day students)**

Students who do not live in a campus residence are known as Oppidani students. All non-residential Nelson Mandela University students are automatically members of the Oppidani House and are known as Oppies. Although Oppies live off campus, participation in non-academic life is encouraged. The Oppidani House Committee is the body of elected student leaders who are your link with the university and campus life.

### • **Societies**

Students can become a member of numerous student-run societies enabling them to have fun with like minded students while gaining valuable leadership, communication and social skills. There are presently 76 societies active on our various campuses, and these societies are categorised as either academic, religious, developmental, social responsibility or political.

# Madibaz Sport

Madibaz sport offers a wide variety of competitive and recreational sport programmes for students and staff, as well as the wider university community. These programmes provide students with the opportunity to participate in various sport and recreational activities ranging from informal social games, to highly competitive leagues where skills are tested against the best in the province and country. In addition, through the various high performance programmes coordinated by the Madibaz High Performance Complex, the university plays a major role in the process of developing elite and potentially elite players.

Madibaz sport also provides club members with excellent sport facilities, scientific based coaching programmes, which includes organisational and administrative support. Well-equipped health and

fitness centres offer professional gym facilities at student prices, and provide assistance with sport performance testing, sport specific training and injury rehabilitation.

## **The following clubs are offered on the various university campuses:**

Athletics\* • Athlons (Tri; Bi; Du- and Biathlete) • Basketball • Chess • Cricket\* • Cycling • Golf • Hockey\* • Judo • Karate • Netball\* • Rugby\* • Rowing • Soccer\* • Squash\* • Surfing • Swimming • Table Tennis • Tennis\* • Underwater hockey • Volleyball • Water polo

**\* Sports also offered on the George Campus.**

## Madibaz

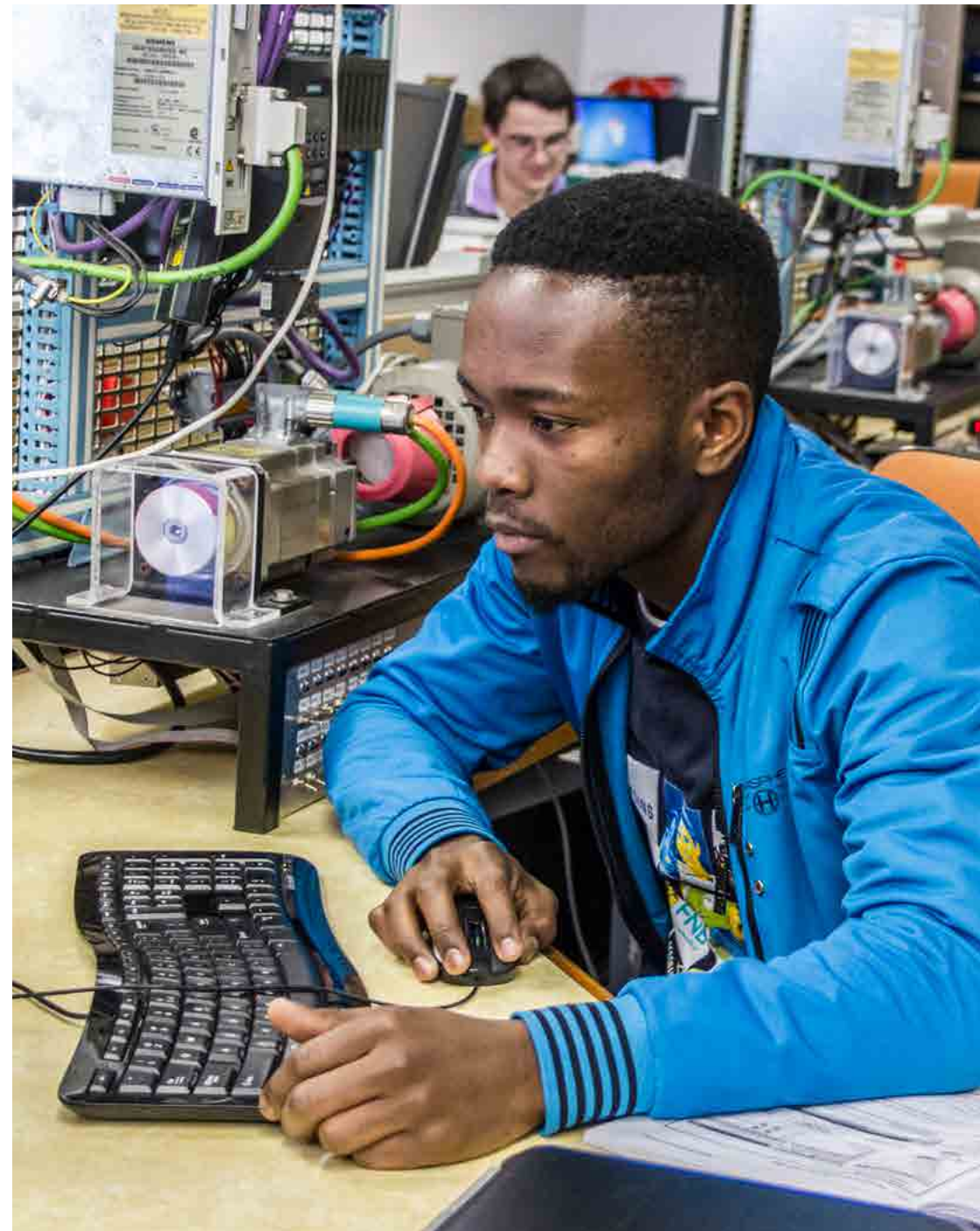
All teams have nicknames, or names by which they are popularly known. Nelson Mandela University has one too. Those who work, study and play sport at Nelson Mandela University proudly refer to themselves as Madibaz. In addition to our name, the university also boasts a mascot, named Diba.



# Admission to Nelson Mandela University

## Overview

- Applications for early admission should be submitted before the **August** closing date. Late applications will however be considered after this date, based on academic merit, until the **September** closing date. Places are limited and it is therefore in your best interest to submit your application early.
- Prospective students must meet the statutory minimum requirements based on the **National Senior Certificate (NSC)**, or equivalent school-leaving certificate for admission to a higher certificate, diploma or degree qualification, in order to be considered.
- Admission to an undergraduate programme will be further determined by an applicant's **Admission Point Score (APS)**. The APS system is used for allocating point values to your seven NSC subjects.
- Applicants whose **Admission Point Score (APS)** falls below the APS required for direct entry to a specific qualification, may be referred to write an access assessment test, provided that their APS falls within the indicated testing band. Provisional admission will then be based on both an applicant's school and access assessment test performance.
- Submission of a completed application form does not mean that you have been accepted as a student, or that you may register. All prospective students are selected in accordance with the admissions policy of the university, and applicants will be notified of the outcome by the admissions office.
- Provisional admission is based on levels/symbols obtained in your Grade 11 final, or Grade 12 June/September examinations. However, the final decision is based on your final Grade 12 exam results.
- Once you've submitted your form you may be required to write an access assessment test, submit a portfolio of evidence, or attend an interview. Your admission decision will then only be made once one, or all of these additional requirements have been completed.
- In addition to the general university admission requirements, each programme also has its own specific requirements.
- Applicants with international or foreign qualifications must satisfy the requirements laid down by the Matriculation Board to qualify for a certificate of exemption for a particular international or foreign school leaving qualification.
- In the case of applications by candidates who have studied at other higher education institutions accredited by the South African Qualifications Authority (SAQA), the results obtained at such institutions will be considered, together with their academic record and certificate of conduct.
- There are limits to the number of students that can be admitted to each programme.
- **If a programme is full, you may be denied admission even though you meet the minimum requirements.**
- Prospective students who **matriculated prior to 2008** must please contact the university's Admission Office to determine their admission requirements.
- For more information on the application process please contact **041 504 1111**, or visit our website ([mandela.ac.za/application](http://mandela.ac.za/application)) before applying.
- **Please note that admission requirements are subject to change.** Information in this programme guide was correct as at **April 2018**.



## How do you apply?

- Applicants can apply online by logging on to: [mandela.ac.za/application](http://mandela.ac.za/application);
- **Please note** that applications **only open** at the beginning of April for the next year's undergraduate intake.
- **No application fee** is required for South African citizens, but there is an application fee for International Students.
- Manual application forms for study at Nelson Mandela University can be obtained by calling (041) 504 1111, or by e-mail: [info@mandela.ac.za](mailto:info@mandela.ac.za), or collected from the University's admissions office.
- Before completing the application form, please take note of the minimum admission requirements for the programme of your choice.
- **Remember to include your cell number on your form**, as we will be sending you your application status and other important information via this number (Please do not include +27 or any spacing when you enter your cell number);
- Applications for early admissions should be submitted by **2 August 2018**.
- Late applications will still be considered up to **30 September 2018**, but as space is limited we advise applicants to submit/complete their application form before the August closing date.
- Hand in your **manual application form** and **supporting documentation**, (see the first page of the application form for a checklist), to the Admissions Office on South, 2nd Ave, Missionvale or George campuses, or post your completed form and supporting documentation to the following address:

The Admissions Office  
PO Box 77000  
Nelson Mandela University  
Port Elizabeth  
6031  
South Africa

## Online applications

- To apply online, you will need a valid **personal email address** and your **own cell number**;
- Online application(s) are **divided into two parts** (please ensure you complete both sections);
- Gr 12 learner(s) or gap year applicants need to complete the "**Undergraduate**" section;
- **Part 1** (basic background information) – complete all sections indicated and click apply at the bottom of the page. This does not mean that your application is complete, or that you will be considered for admission yet.
- You will be sent an e-mail with a link to **part 2**, as well as your **student number and pin**;
- Click on the link and type in your student number and pin to proceed to **part 2**;
- Ensure that all sections are "green" and that there are no sections highlighted in "red" or "yellow";
- Include **all supporting documentation** with your online application in part 2 as a PDF or JPEG formatted attachment;
- At the bottom of the page you will need to click **final submit** to send us your application.
- No changes can be made after you have submitted your application form.
- Should you require support in completing your online application, you may contact our Contact Centre on **041-504 1111** for assistance, or e-mail: [onlineappdocs@mandela.ac.za](mailto:onlineappdocs@mandela.ac.za)

## Important documentation

In order for the university to finalise your application you are requested to submit the following supporting documentation with your application:

- A certified copy of your **identity document or birth certificate** (ID document compulsory for SA Citizens – your application cannot be processed without a certified copy of your ID or birth certificate);
- A certified copy of **your latest school results** (grade 11 final, or grade 12 June/September results, or final school leaving results if you have already completed Gr 12 (e.g. if you are currently at school and apply in August submit your June results). **No grade 12 March results**;
- **Declaration** by your parent / legal guardian / surety form (downloaded from the university website if you apply online);
- A certified **copy** of your **parent / legal guardian / surety's identity document**;
- Completed disability assessments form (if applicable);
- **Copy** of your current residential / home or postal address.
- **NB:** Please note that your **student number/identity number** must clearly be indicated on all documentation submitted. Your application form cannot be processed if you do not include all supporting documentation with your application.

## Language of Teaching and Learning

While Nelson Mandela University is committed to multilingualism, the predominant language of teaching and learning at the University is English. The statutory language requirements can be met by obtaining a minimum rating of 3 (40 - 49%) or higher in English, Afrikaans or isiXhosa as a home or first additional language. Some qualifications may require a higher pass mark for language(s) than what is indicated here. Please refer to the subject requirements of the qualification, before completing your application form to ensure that you meet the admission & subject requirements.

## Additional requirements

Over and above the minimum APS requirement, additional subject requirements have been set. These include:

1. **Mathematics:** This is required for certain programmes. Only performance in the core Mathematics topics (papers 1 and 2) will be used when making admission decisions.
2. **Mathematical Literacy:** In view of the importance of quantitative literacy for success at higher education studies, a minimum of a 3 (40-49%) or higher for Mathematical Literacy is preferred for likely success at Higher Certificate, or 6 (70-79%) for Diploma programmes. A level 4 (50-59%) or higher for likely admission to degree programmes where Mathematics is not a requirement, unless otherwise indicated.

# Admission Requirements

## National Senior Certificate (NSC)

- The table below explains what you need to achieve to meet the minimum entry requirements for each type of qualification;
- It is important to note that the table refers to minimum statutory entry requirements set by the Department of Higher Education & Training;
- The University may add additional requirements for specific programmes.

Qualification	Minimum statutory entry requirement
<b>Higher Certificate</b>	Pass NSC, with a minimum of 30% in the language of learning and teaching of the higher education institution, together with any other university requirements.
<b>Diploma</b>	Pass NSC with a minimum of 30% in the language of learning and teaching of the higher education institution, coupled with an achievement rating of 3 (40–49%) or better in four recognised NSC 20-credit subjects (this excludes LO which is 10-credits), together with any other university requirements.
<b>Bachelor's Degree</b>	Pass NSC with a minimum of 30% in the language of learning and teaching of the higher education institution, coupled with an achievement rating of 4 (50–59%) or better in four NSC 20-credit subjects from the designated list, together with any other university requirements.

**Please note** that the achievement of the minimum NSC admission requirements does not necessarily guarantee admission to any programme or field of study at Nelson Mandela University.

## Extended Curriculum Programmes

The transition from school to university is challenging for most young people. It is, however, even more dramatic for learners who for various reasons, find that they do not meet the minimum admission requirements for the programme of their choice. Nelson Mandela University offers a wide range of extended curriculum programmes that provide such students with the opportunity to enroll for an extended programme in order to obtain the same mainstream qualification at the end of their study career (e.g. a BCom degree). In practice, it implies that a student will complete a three-year degree or diploma programme in four years. These programmes provide an environment in which academic support and skills development are integrated with regular academic work. Additional support courses and activities in the first two years of the extended programme assist students to adapt to the university's learning environment in order to follow the mainstream courses during the last two years of study.

## Designated school subjects

- If you intend to enrol for a degree programme you need to ensure that **four of your seven subjects** are from the designated list and that you obtain at least a **level 4 (50-59%)** or higher in each of them.
- You will notice that the list already includes three of the four compulsory subjects required for obtaining the NSC, namely two official languages, and Mathematics or Mathematical Literacy.
- All seven subjects irrespective of whether they are from the designated list are used to calculate your APS, unless otherwise indicated.
- A learner must have selected at least four subjects from the list below, in order to apply for a degree programme.

Accounting	Language(s)
Agricultural Sciences	Life Sciences
Business Studies	Mathematics or Mathematical Literacy
Dramatic Arts	Music
Economics	Physical Sciences
Engineering Graphics and Design	Religion Studies
Geography	Visual Arts
History	Consumer Studies
Information Technology	



## How to calculate your Admission Point Score (APS)

- The APS system allocates point values to seven NSC subjects.
- Write down your relevant grade 12 subjects and the percentage (%) you have obtained in each subject.
- Allocate points according to the table below.
- Include Life Orientation (LO) when you calculate your APS (unless otherwise indicated).
- Add up the number of points you have scored for all seven subjects. If you have eight or more subjects, use Life Orientation + your six best other subjects to calculate your APS (unless otherwise indicated).
- Compare your APS against the minimum APS required for the qualification you wish to apply for.
- If your APS is lower than the direct admission requirement set for a specific qualification, refer to the testing band range to determine if your score falls within the range to be referred for an access assessment test, and that you meet the subject requirements for the qualification(s) you wish to apply for.

## Admission Point Score (APS)

NSC Levels	NSC %	APS Levels	APS %
7	90 – 100%	8	90 – 100 %
7	80 – 89 %	7	80 – 89 %
6	70 – 79 %	6	70 – 79 %
5	60 – 69 %	5	60 – 69 %
4	50 – 59 %	4	50 – 59 %
3	40 – 49 %	3	40 – 49 %
2	30 – 39 %	2	30 – 39 %
1	0 – 29 %	0	0 – 29 %

## APS Testing Band

In order to apply for an undergraduate qualification, your Admission Point Score (APS) must either meet the direct entry requirement or fall within the testing band indicated. If your APS score falls within the testing band you may be referred to write the Access Assessment Test before a decision is made whether to admit you to that qualification. However, if your APS falls below the testing band you will need to consider applying for an alternative qualification.

## Example 1

To enrol for a diploma in analytical chemistry you will need an Admission Point Score (APS) of at least 34, as well as a pass in certain subjects in order to be considered.

NSC Subject	NSC %	NSC Level	APS points allocated
English	65 %	5	5
Xhosa	60 %	5	5
Mathematics	70 %	6	6
Physical Science	55 %	4	4
History	80 %	7	7
Life Orientation	74 %	6	6
Accounting	71 %	6	6
<b>Admission Point Score</b>			<b>39</b>

The applicant has met the minimum requirements for admission to the Diploma (Analytical Chemistry).

## Example 2

To enrol for BCom (Accounting) you need an Admission Point Score (APS) of at least 38, as well as **four subjects** from the **designated list** and a pass in Language(s) and Mathematics on at least level 5 (**60-69%**).

NSC Subject	NSC %	NSC Level	APS points Allocated
English	70 %	6	6
Afrikaans	80 %	7	7
Mathematics	69 %	5	5
Accounting	65 %	5	5
Life Orientation	60 %	5	5
Physical Science	74 %	6	6
Life Sciences	81 %	7	7
<b>Admission Point Score</b>			<b>41</b>

This applicant has met the minimum admission requirements for admission to the BCom (Accounting) degree.

# Access Assessment Testing

If you are informed by the admissions office that you are required to write the Access Assessment Test, it means the university wishes to give you an additional opportunity to be considered for your chosen programme, by assessing your academic proficiencies for the qualification you have applied for. We want you to succeed, therefore your test results and additional information provided by yourself at testing, are used to place you where you are likely to have the best chance of being successful, and achieving your career goals. You are responsible for contacting the **Centre for Access Assessment and Research (CAAR)** to book your test date, once you have received a sms advising you to do so.

The highly trained CAAR Consultants understand the requirements of the university programme you wish to be considered for, as well as the range of options available to you, in order to help you achieve your career goals. If necessary, they may place you in an extended programme or alternative programme that suits both your current academic proficiencies and career aspirations. If, after testing you have questions or concerns about the process, you can contact the CAAR office in resolving these and planning a way forward.

You can write the Access Assessment Test in Port Elizabeth or George on the university campuses located in these cities. You may also be tested in Cape Town, East London, Umtata, Durban, Bloemfontein, Johannesburg or Polokwane if one of these venues suit you better. The cost for testing depends on where you are tested. Testing done on the university campuses (Port Elizabeth and George) are FREE. However, tests written at centres outside of PE and George are conducted by a private psychologist who will charge a fee.

To make a booking please call **041 504 2918**, or you can also book online ([caar.mandela.ac.za](http://caar.mandela.ac.za)) only after you have been informed by the admissions office that you are required to write this test.



# International/Foreign Qualifications

- South African applicants with international school-leaving qualifications will be adjudged according to the School Performance Score (SPS).
- The applicant will have to comply with the minimum SPS set for the programme applied for as well as any other additional subject requirements.

- An applicant is required to obtain a minimum of 40% for English, Afrikaans or isiXhosa at home or first additional/ second language level.
- Applicants may also be required to write the Access Assessment Test before a final decision is made.
- To calculate your SPS use the symbols/achievement rating/percentages obtained in your school-leaving examinations in order to convert them to an equivalent achievement standard on the National Senior Certificate (NSC).

## Admission Point Score (APS) equivalency conversion table for International/Foreign qualifications

Admissions Point	NSC Ach Level	Sen Cert HG	Sen Cert SG	HIGCSE NSSC	IGCSE O-level	AS-level	A-level	IB HL	IB SL	KCSE
12							A			
11							B			
10										
9							C			
8	7 (90-100%)	A		1		A		7		A+,A
7	7 (80-89%)	B		2		B		6		A-
6	6	C	A	3	A	C		5	7	B+
5	5	D	B		B	D		4	6	B, B-
4	4	E	C		C	E			5	C+
3	3	F	D						4	
2	2		E							
1 or 0	1		F							

### Key:

- NSC** National Senior Certificate  
**Sen Cert HG** Senior Certificate Higher Grade  
**Sen Cert SG** Senior Certificate Standard Grade  
**HIGCSE** Higher International Graduate Certificate of Secondary Education  
**IGCSE** International Graduate Certificate of Secondary Education  
**O-level** Ordinary level  
**AS** Advanced Subsidiary  
**A-Level** Advanced level. An A-level represents a year's extra study beyond AS level and is regarded as worth double the points awarded to an equivalent AS grade (i.e., 10-16 points on an 8-point scale) in many instances.  
**NSSC** Namibian Senior Secondary Certificate  
**IB HL** International Baccalaureate Schools (Higher Levels)  
**IB SL** International Baccalaureate Schools (Standard Levels)  
**KCSE** Kenyan Certificate of Secondary Education



# Financial facts

- Before registering as a student, you need to determine whether or not you will have sufficient funds to finance your studies. Costs involved in higher education include enrolment fees, registration and tuition fees, books, transport, meals, accommodation, sports equipment and general living expenses.
- Nelson Mandela University offers financial assistance to full-time students in the form of bursaries, merit awards, scholarships and study loans for top academic achievers.
- A number of sport grants are also available for top sports performers and those who show outstanding potential.
- The university also provides financial assistance in collaboration with the **National Student Financial Aid Scheme (NSFAS)** and Fundi for financially-needy students. These funds are awarded to students in the form of a loan.
- Admission to the university does not imply that you will receive a loan, scholarship or bursary.
- Applications for NSFAS loans must be made directly on the NSFAS website, or an application form can be obtained from the NYDA offices, and sent directly to the NSFAS office in Cape Town. The closing date for NSFAS funding is advertised on their website. Further information can be obtained from the NSFAS website – [www.nsfas.org.za](http://www.nsfas.org.za) – or by calling 086 006 7327.
- Alternatively, Fundi is a private finance company that exclusively focuses on educational finance, assisting people who are not able to pay for their own, or the studies of their dependants, and who do not qualify for the traditional financing through the formal banking sector or government aid schemes. Fundi loans are available for study fees and books, and provide simple repayment options at an affordable interest rate to loan applicants.

For more information on financial assistance, contact the **Financial Aid Office** on (041) 504 3182/1111, website: [finaid.mandela.ac.za](http://finaid.mandela.ac.za) or e-mail: [financialaid@mandela.ac.za](mailto:financialaid@mandela.ac.za).

## Scholar Merit Awards

Scholar Merit Awards are awarded to new first-year students who have achieved a specific Academic Point Score (APS), based on their final grade 12 results. The rand value of this award is determined on a sliding scale between a predetermined minimum and maximum value, and is linked to the specific APS achieved by an individual first-year student.

## Applicable Rules/Criteria:

- Only South African citizens and permanent residents qualify for this award;
- This award is for one year only;
- The Scholar Merit bursary is regarded as a first payment towards tuition fees;
- Prospective students do not apply for this award, as they qualify automatically based on their final Grade 12 results, if their final APS is at least 40 or above;
- They must have passed Grade 12 not more than **2 years** prior to their first year of study. If not passed the year adjacent of their first year of study, then a **Previous Activity Form** should be completed and submitted to the Financial Aid Office before **28 February**.
- Their registration at Nelson Mandela University must be their first registration at a higher education institution;
- They must remain registered as a full-time degree/diploma student for the full academic year, otherwise the bursary is withdrawn;
- If a student cancels his/her registration in the 1st semester the full award will be forfeited;
- If a student cancels his/her registration in the 2nd semester, 50% of the award will be forfeited.
- The calculation of a student's APS is based on their final Grade 12 results (usually available in

January), and the results obtained after a re-mark are not considered.

- Students who have achieved the minimum APS (40 and above), but whose qualification for this bursary has not yet been confirmed by the University at the commencement of first year registrations, must submit a certified copy of their final Grade 12 results to the Financial Aid Office.
- Qualifying students who have only been allowed to register for the first time in the second semester, may be awarded 50% of the bursary value.
- The APS score is calculated as follows, using the table below: points are earned for each of the seven individual Grade 12 subjects, based on the percentage achieved for each subject. If a student has more than seven subjects, the seven best results are used. The points for each subject are all added to form the total APS.

APS Points	NSC Percentages
8	90 – 100%
7	80 – 89%
6	70 – 79%
5	60 - 69%
4	50 – 59%
3	40 – 49%
0	0 – 39%

- The rand value of each award is determined on a sliding scale across three bands of APS scores according to the table below.

Total Merit Points	Amount*
50 and above	R16 000
46-49	R12 000
40-45	R8 000

For more information contact the Financial Aid Office on 041 504 3182/1111 or e-mail: [financialaid@mandela.ac.za](mailto:financialaid@mandela.ac.za)

**\*Disclaimer:** “The University reserves the right to amend the policy with regards to the allocation of this award, and may in its sole discretion, decide to implement such amendments retrospectively”.

## Leadership awards

Leadership Awards are granted to head prefects (Head Boy/Head Girl), and Learner Representative Council Presidents (in cases of no Head Prefects). The value of the Leadership Award for an APS less than **40** is **R4000\***. Head Prefects who score an APS of 40 and more, will receive an additional **R4000\***.

- Documentary proof of your Grade 12 results, including a letter from your school verifying your leadership role must be submitted to the Financial Aid office on North Campus as soon as possible. The last day for submission of these documents is **31 March** annually.

**\*Disclaimer:** “The university reserves the right to amend the policy with regards to the allocation of this award, and may in its sole discretion, decide to implement such amendments retrospectively”.



### Student merit bursaries

Returning undergraduate students can automatically qualify for merit bursaries based on their final results in the previous year of study. All students who have passed all their modules at the first attempt and have attained a weighted average mark of 70% (subject to change) or higher, and have been registered for a minimum relative course weight of at least .800 (or 96 credits), receive a student merit bursary, the rand value of which is determined on a sliding scale. This award is only made to SA citizens.

**NB:** Exempted courses are not included in the minimum relative weight or credit value for merit award purposes. The value of the bursary is not a fixed amount and is determined in accordance with the available budget. These awards are only for undergraduate studies. Students intending to register for Postgraduate Diplomas or honours studies must apply for those bursaries on the prescribed form before **1 November** of the year preceding postgraduate studies.

**\*Disclaimer:** "The university reserves the right to amend the policy with regards to the allocation of this bursary, and may in its sole discretion, decide to implement such amendments retrospectively".

### Sport bursaries

Madibaz Sport offers sport bursaries of varying amounts to sport performers who have demonstrated the ability to play sport at a high level of competition. Sport Bursaries are awarded to students by the sport department. Closing date: **28 September 2018**. Bursary application forms can be obtained from the Madibaz Sport by e-mail: [sport@mandela.ac.za](mailto:sport@mandela.ac.za) or by calling (041) 504 2165.

### Vice-Chancellor's Scholarships

The Vice-Chancellor's Scholarship aims to recruit top performing learners from diverse socio-economic contexts, to register for a Nelson Mandela University degree or diploma qualification from their first-year, and retain and develop them while they complete their studies. The scholarship, valued at R96 000 a year, is renewable for each year of a first undergraduate degree or diploma, provided academic performance remains of the highest standard. Up to 25 Vice-Chancellor's Scholarships may be awarded each year. Vice-Chancellor's Scholarship students will also have access to other benefits and opportunities that will enhance their academic experience and leadership development. For more information contact the **Communication and Stakeholder Liaison** division on 041 504 3084 or e-mail: [vcs@mandela.ac.za](mailto:vcs@mandela.ac.za)



# Accommodation

## On-campus

The university provides various affordable, comfortable on-campus accommodation options. These include the residences on the university's Summerstrand and George campuses, and the Student Villages in Summerstrand, which consist of self-catering units for senior students. As accommodation is limited, early application is essential. Prospective students should note that being offered a place in an academic programme does not mean they have been accepted into a residence. The closing date for on-campus residence applications are: **30 September 2018**. No late applications will be considered. For more information contact: (041) 504 3690/1415, or e-mail: [resadmissions@mandela.ac.za](mailto:resadmissions@mandela.ac.za), or visit their website: [studenthousing.mandela.ac.za](http://studenthousing.mandela.ac.za)

## Off-campus

Some students prefer living off-campus. Off-campus accommodation options include renting flats, houses or boarding at nearby private residences. The university offers a service to assist students in finding suitable off-campus accommodation. For more information on off-campus accommodation please contact (041) 504 4735/6 or e-mail: [offcampus.accomodation@mandela.ac.za](mailto:offcampus.accomodation@mandela.ac.za), or visit their website: [ocho.mandela.ac.za](http://ocho.mandela.ac.za).

## Applying for residence accommodation

- Apply online: [studenthousing.mandela.ac.za](http://studenthousing.mandela.ac.za)
- Please note that indicating that you require residence accommodation does not guarantee placement in any of the university's on-campus accommodation options;

- A selection process has to take place and priority will be given to applicants who have obtained excellent academic results;
- No student will be admitted to residence until she/he has been academically admitted to a university programme, or before the appropriate fees have been paid;
- Also note that residence accommodation is limited and preference will be given to applications received before the end of September;
- Please submit a residence accommodation form together with proof of your current residential/home or postal address via e-mail ([resadmissions@mandela.ac.za](mailto:resadmissions@mandela.ac.za)), fax (041- 504 9765) or post (Residence Accommodation, PO Box 77000, Nelson Mandela University, Port Elizabeth, 6031).

# International students

The Office for International Education provides information and assistance to prospective and current international students. Information on study programmes, fees, accommodation and study permit requirements can be obtained from this office. Please contact them on +27 (0)41 504 2161 or e-mail: [international@mandela.ac.za](mailto:international@mandela.ac.za) or visit their website ([international.mandela.ac.za](http://international.mandela.ac.za)).

**The closing date for applications by international students is 31 October 2018.**

# Assistance for students with disabilities

Nelson Mandela University would like to ensure that students with disabilities enjoy a successful student experience, thus we strive to ensure that academic concessions, reasonable adjustments for general accessibility, test and examinations and other academic concessions, are made to meet your needs. Services currently available include assistive technologies, dedicated computer spaces equipped with assistive technologies, braille transcription support, adapted transport for those with mobility difficulties, and volunteer buddies amongst other.

As every case needs to be individually assessed, please register your special needs with the university's Disability Unit **as soon as possible, preferably the year prior to registration and application**. At your first appointment you will need to provide medical documentation from an appropriate health professional. The goal of the consultations between students and the Disability Unit is to identify the impact of a disability on the students' academic performance and to maximise opportunities for independent participation.

## What can we offer you?

- Support consultation sessions to determine all support required during your academic journey;
- Orientation and information sessions on various services, support, and technologies available;
- Facilitation of support services, such as assistive technology, braille support, orientation and mobility training, access to facilities, academic support concessions, adapted transport, and identifying appropriate student housing spaces according to the disability.

Bursaries for students with disabilities are available, via an online application process, through NSFAS. Please contact NSFAS on 086 006 7327, or visit their website: [www.nsfas.org.za](http://www.nsfas.org.za)

Please contact the **Disability Unit** on 041 504 2313/ 4756/ 2562 or e-mail: [disability@mandela.ac.za](mailto:disability@mandela.ac.za) for further information.



# Faculty of Science

## School of Biomolecular & Chemical Sciences

Department of Biochemistry and Microbiology  
Department of Chemistry  
Department of Textile Science

## School of Computing Sciences, Mathematics, Physics and Statistics

Department of Computing Sciences  
Department of Mathematics & Applied Mathematics  
Department of Physics  
Department of Statistics

## School of Environmental Sciences

Department of Agriculture & Game Management  
Department of Botany  
Department of Geosciences (Geography & Geology)  
Department of Zoology

## George Campus

### School of Natural Resource Management

Agricultural Management  
Forestry  
Nature Conservation and Game Ranch Management  
Veldfire Management  
Wood Technology

#### Admissions offices

Port Elizabeth Campuses: 041 504 1111  
George Campus: 044 801 5111

#### Faculty Administration

041 504 2679/ 2268/ 9922

[FA-Science@mandela.ac.za](mailto:FA-Science@mandela.ac.za)

[info@mandela.ac.za](mailto:info@mandela.ac.za)

[science.mandela.ac.za](http://science.mandela.ac.za)

*Prospective students are advised to contact the admissions office prior to applying or to refer to the faculty website or prospectus for more information regarding any qualifications offered within the Faculty of Science.*



Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>Diploma (Dip)</b>						
<b>Dip (Agricultural Management)*</b>  <i>*(also offered on the George Campus)</i>	<p>This diploma course teaches the problem solving and situation analysis skills needed to effectively manage an agricultural enterprise.</p>	<p>Full-time 3 years (including 1 year in-service training)</p>	26 – 31	32	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for diploma entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 3 (40-49%) or Mathematical Literacy 5 (60-69%).</li> <li>• Life Sciences or Physical Science or Agricultural Science 4 (50 – 59%).</li> <li>• Admission is subject to departmental selection.</li> </ul> <p><b>RECOMMENDED NSC SUBJECTS:</b> Economics, Agricultural Management Practices, Agricultural Technology, Accounting, Life Sciences or Agricultural Sciences.</p>	<p>Work opportunities in agricultural management are to be found with cooperatives, chemical companies, on farms (as farm managers), in the civil service and with all companies that provide agricultural products or services.</p>
<b>Dip (Analytical Chemistry)</b>	<p>This programme consists of two years full-time study at Nelson Mandela University, followed by one year of in-service training at a suitable laboratory.</p> <p>The study of Chemistry involves investigation, observation, measurement, critical thinking, problem solving and scientific reasoning. Chemistry being a central science is studied together with other related science disciplines.</p> <p>Practical lab work and theoretical studies form an essential part of chemistry programmes at this university.</p>	<p>Full-time 3 years (including 1 year in-service training)</p>	24 – 33	34	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for diploma entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 4 (50-59%)</li> <li>• Physical Sciences 4 (50-59%)</li> </ul>	<p>The work of an analytical chemist or chemical technician differs from one industry to another. It may range from analysing traces of pesticides in milk to determining manganese in steel or checking raw materials used in the making of chocolate. It may also involve checking the purity of solvents used for making paints or analysing pharmaceutical products. You could also be involved in research or process development or be in charge of a laboratory.</p>

Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>Dip (Game Ranch Management)*</b>  <i>*(also offered on the George Campus)</i>	<p>This programme includes thorough training in the fields of game science, game ranch ecology, game ranch management, game health management, soil science, rangeland studies, game utilisation and computer usage.</p> <p>Throughout the programme, compulsory tours and excursions to some of the country's top game parks and reserves as well as to meat processors and exporters are included to ensure that students receive maximum exposure to the game industry.</p> <p>Two years' of study are spent at the university, and one year is spent in practice undergoing experiential training.</p>	Full-time 3 years (including 1 year in-service training)	26 -31	32	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for diploma entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 3 (40 - 49%) or Mathematical Literacy 5 (60 - 69%).</li> </ul>	Game ranchers work mainly on private game ranches, game farms and nature reserves. Opportunities are available to manage ecotourism ventures in national parks, provincial nature conservation departments, services councils and municipalities.
<b>Dip (Polymer Technology)</b>	<p>Polymer technology can be described in brief as the manufacture, processing, analysis and application of long chain molecules. Materials that are typically classified as polymers include: plastics, paints, rubber, foams, adhesives, sealants, varnishes etc.</p> <p>The programme includes in-depth training in chemistry, and engineering and manufacturing practices related to the field.</p>	Full-time 3 years (including 1 year in-service training)	24 - 33	34	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for diploma entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 4 (50-59%)</li> <li>• Physical Sciences 4 (50-59%)</li> </ul> <p>If an applicant has not taken the optional Mathematics topics, additional modules may be added to the programme, which might extend the length of the programme.</p>	Employment opportunities exist in the motor manufacturing and related supply and service industries, such as paint, tyre and plastic-component industries.

Columns marked with an asterisk (\*) indicate the minimum requirements for admission to a programme. Should you not meet these requirements but fall within the APS testing band you may be referred to write an access assessment test before an admissions decision is made.



Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>Diploma (Chemical Process Technology)</b>	<p>The course is currently the only one of its kind in South Africa. Hands-on practical training includes training in the only working pilot chemical production facility at a South African university which provides for seamless intergradation into a real-life work environment.</p> <p>This qualification comprises a mixture of disciplinary-based courses in chemistry, physics, engineering, statistics, mathematics and computer technology.</p> <p>Apart from the formal course and practical work at the university's modern laboratories and Chemical Pilot Plant, the course also includes a six-month experience-based learning component in an industrial setting where skills and knowledge acquired at university are integrated and applied under real-life working conditions.</p>	Full-time 3 years	28 -35	36	<ul style="list-style-type: none"> <li>Minimum NSC requirements for diploma entry must be met.</li> <li>English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 5 (60-69%).</li> <li>Mathematics 4 (50-59%)</li> <li>Physical Science 4 (50-59%).</li> </ul> <p>An N3 certificate with a minimum of 60% in Mathematics and Engineering Science, and 50% for any other electives, subject to admissions and placement testing.</p> <p><b>Please note</b> that due to health and safety reasons, the chemical industry screens prospective employees for a medical history of asthma or lung diseases. Do not consider this qualification if you have had any previous medial illnesses like Asthma or any lung diseases.</p>	Chemical Process Technician. The graduate will be able to find quality employment in a wide variety of industries, nationally and internationally, as this education foundation is designed with industry participation to meet the needs of the chemical and petroleum industry.

### Bachelor of Technology (BTech) (The BTech degree forms the fourth year of study after completing the diploma)

*Bachelor of Technology (BTech) degrees are to be phased out in due course and replaced with an appropriate qualification e.g. Advanced Diploma.*

<p><b>BTech (Agricultural Management)*</b></p> <p><i>*(also offered on the George Campus)</i></p> <p><b>*Please note</b> that the final year for new admission into this qualification will be 2019.</p>	<p>This programme is offered on a block release basis. This means that students attend two study schools of one week and two weeks per year. Students master the skills and knowledge needed by means of self study and project work. The method of delivery makes it possible for working persons to register for the degree. If sufficient demand exists, the degree is also offered on a full-time basis.</p>	Full-time 1 year or block release 2 years			<p>An applicable three-year Diploma (Agricultural Management) qualification or equivalent qualification.</p> <p>Academic qualifications, as well as relevant work experience, will be taken into account during selection.</p> <p>Students with less than two years' relevant experience will be considered if their average mark for the final year of diploma studies is at least 60%. Recognition of prior learning (RPL) will also be considered.</p>	Work opportunities in agricultural management are to be found with co-operatives, chemical companies, on farms (as farm managers), in the civil service and with all companies that provide agricultural products or services.
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Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>BTech (Game Ranch Management)*</b>  *(also offered on the George Campus)  <b>Please note</b> that the final year for new admission into this qualification will be 2019.	The programme consists of advanced training in both technical and management skills. Aspects such as financial management, strategic management and game production are studied in detail.	Full-time 1 year or block release two-years			An applicable three-year tertiary qualification or equivalent. Academic qualifications, as well as relevant work experience, will be taken into account. Recognition of prior learning (RPL) will also be considered.	Game ranchers work mainly on private game ranches, game farms and nature reserves. Opportunities are available to manage ecotourism ventures in national parks, provincial nature conservation departments, services councils and municipalities.
<b>Advanced Diploma (Adv Dip)</b>						
<b>Advanced Diploma (Analytical Chemistry)</b>	This qualification will equip students to obtain training in the more advanced and specialised field of analytical chemistry, that is related to instrumentation and laboratory organisation. Training will focus on developing skills on certain key instruments that are commonly used in the chemistry related industry.  Skills training will relate to equipping the potential analyst with the ability to plan, organise and execute complex analyses on specialised laboratory equipment, followed by the ability to deal with resultant data and the conversion and interpretation of the data to applied knowledge.	Full-time 1 year			Dip (Analytical Chemistry) or BSc degree with chemistry as major or an equivalent qualification with chemistry or analytical chemistry as a major. Applicants should have passed his/her final undergraduate academic chemistry modules with at least 60% average on their first attempt.  If the demand for the programme exceeds the allowed capacity, then a competitive entry will be used, based on academic merit. Where the first preference will be given to students with the highest marks from their final year academic chemistry modules.  Mature students or those that do not qualify for the programme based on their initial lower entrance requirements can apply if they had worked in the related industry for at least one year after their undergraduate diploma or BSc qualification would be considered for acceptance onto the programmes by an interview process. The route of entry will be governed by the Nelson Mandela University policy on RPL.	The skills the student will acquire during the qualification will enable them to become more employable in modern analytical laboratories within production and process chemical industries such as the petrochemical, mining, pharmaceutical, rubber/polymers, cement, catalysis, and government departments.  These include amongst others forensics, the water board and university's technical departments. Graduates can further develop their skills by becoming specialists of certain techniques that can then work within the large industrial sector of analytical instrument suppliers or agencies.

Columns marked with an asterisk (\*) indicate the minimum requirements for admission to a programme. Should you not meet these requirements but fall within the APS testing band you may be referred to write an access assessment test before an admissions decision is made.

Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>Bachelor of Science (BSc) Extended Curriculum</b>						
<b>BSc: Biological Sciences Extended Curriculum</b> <ul style="list-style-type: none"> <li>Biochemistry</li> <li>Chemistry</li> <li>Microbiology</li> <li>Physiology</li> </ul>	<p>This programme for BSc studies provides alternative university access to students who have the potential to succeed, but do not meet the minimum admission requirements for the mainstream programme.</p> <p>The purpose of the programme is to integrate additional academic support and skills development with mainstream courses in order to prepare the student for successful completion of the BSc degree.</p>	Full-time 4 years	30 – 39		<ul style="list-style-type: none"> <li>Minimum NSC requirements for degree must be met.</li> <li>English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>Mathematics 4 (50-59%)</li> <li>Physical Science 2 (30-39%)</li> <li>Candidates must perform satisfactorily in the access assessment test.</li> </ul>	The BSc degree should be seen as a stepping-stone which provides a foundation for a career in science. Career opportunities may vary depending in which field you graduate and/or obtain a postgraduate qualification in.
<b>BSc: Biological Sciences Extended Curriculum</b> <ul style="list-style-type: none"> <li>Marine Biology,</li> <li>Conservation biology</li> <li>Ecology</li> <li>Environmental management &amp; Coastal zone management</li> </ul>	<p>This programme for BSc studies provides alternative university access to students who have the potential to succeed, but do not meet the minimum admission requirements for the mainstream programme.</p> <p>The purpose of the programme is to integrate additional academic support and skills development with mainstream courses in order to prepare the student for successful completion of the BSc degree.</p>	Full-time 4 years	30 – 39		<ul style="list-style-type: none"> <li>Minimum NSC requirements for degree must be met.</li> <li>English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>Mathematics 4 (50-59%)</li> <li>Physical Science 2 (30-39%)</li> <li>Candidates must perform satisfactorily in the access assessment test.</li> </ul>	The BSc degree should be seen as a stepping-stone which provides a foundation for a career in science. Career opportunities may vary depending in which field you graduate and/or obtain a postgraduate qualification in.
<b>BSc (Environmental Sciences) Extended Curriculum</b>	<p>This programme for BSc studies provides alternative university access to students who have the potential to succeed, but do not meet the minimum admission requirements for the mainstream programme.</p> <p>The purpose of the programme is to integrate additional academic support and skills development with mainstream courses in order to prepare the student for successful completion of the BSc degree.</p>	Full-time 4 years	30 – 39		<ul style="list-style-type: none"> <li>Minimum NSC requirements for degree must be met.</li> <li>English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>Mathematics 4 (50-59%)</li> <li>Candidates must perform satisfactorily in the access assessment test.</li> </ul>	The BSc degree should be seen as a stepping-stone which provides a foundation for a career in science. Career opportunities may vary depending in which field you graduate and/or obtain a postgraduate qualification in.

Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>BSc: Geosciences (Geology &amp; Geography) Extended Curriculum</b>	<p>This programme for BSc studies provides alternative university access to students who have the potential to succeed, but do not meet the minimum admission requirements for the mainstream programme.</p> <p>The purpose of the programme is to integrate additional academic support and skills development with mainstream courses in order to prepare the student for successful completion of the BSc degree.</p>	Full-time 4 years	30 – 39		<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 5 (60-69%)</li> <li>• Candidates must perform satisfactorily in the access assessment test.</li> </ul>	The BSc degree should be seen as a stepping-stone which provides a foundation for a career in science. Career opportunities may vary depending in which field you graduate and/or obtain a postgraduate qualification in.
<b>Bachelor of Science (BSc)</b>						
<b>BSc (Biochemistry, Chemistry, Microbiology &amp; Physiology)</b>	BSc with two majors chosen from Biochemistry, Chemistry, Microbiology & Physiology.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%)</li> </ul>	Career opportunities exist in industry (chemical, food, and biotechnological), teaching, research (medical, agriculture, chemistry, sport, and nutrition).
<b>BSc (Applied Mathematics, Mathematicis, Computer Science, Mathematical Statistics &amp; Physics)</b>	BSc with majors in Applied Mathematics, Computer Science, Mathematics and Mathematical Statistics.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	Leads to a career in Industrial Mathematics which is the problem driven blend of Mathematics and Statistics that uses mathematical technologies to solve industrial problems. Industrial mathematics is an independent field which studies all mathematical methods that are directly relevant to industry.
	BSc with majors in Applied Mathematics, Computer Science, Mathematics, and Mathematical Statistics or Physics.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	Leads to a career in Computational Physics which is the study and implementation of numerical algorithms in order to solve problems in physics for which a quantitative theory already exists.
	BSc with majors in Applied Mathematics, Mathematics, Mathematical Statistics, Physics and Computer Fundamentals.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	This programme provides for a combination of the problem solving skills and analytical thinking developed through physics and computer science which is an interface between science, technology, engineering, and business. Graduates can enter a variety of careers in business, banking, the government and the military.

Columns marked with an asterix (\*) indicate the minimum requirements for admission to a programme. Should you not meet these requirements but fall within the APS testing band you may be referred to write an access assessment test before an admissions decision is made.

Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>BSc (Applied Mathematics, Mathematicis Computer Science, Mathematical Statistics &amp; Physics)</b>	BSc with majors in Applied Mathematics, Computer Science, Mathematics and Physics.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	This programme provides a powerful platform for entering a variety of employment opportunities in business.
<b>BSc (Biological Sciences)</b>	BSc with majors in Botany and Zoology.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	Career opportunities exist in the fields of marine biology, conservation biology, ecology, environmental management, and coastal management.
<b>BSc (Environmental Sciences)</b>	BSc with two of the following majors: Geography, Geology, Botany, Zoology or Chemistry.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	Various career opportunities exist in mining, water affairs, environmental affairs, as well as in consulting and civil engineering.
<b>BSc: Geosciences (Geology &amp; Geography)</b>	BSc with majors in Geography and Geology.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40 – 49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	Graduates can follow careers as geographers or geologists. Various career opportunities exist in mining, research and exploration, water affairs, environmental management, as well as in environmental and geo-technical consulting and civil engineering.
<b>BSc (Human Movement Science &amp; Biochemistry)</b>	Human Movement Science can also be combined with Physiology or Biochemistry in a BSc degree.	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 5 (60-69%).</li> </ul>	<p>Career opportunities include teaching, school and professional sport coaching, exercise and fitness instruction, sport management lecturing and research, sport psychology, biokinetics, and sport science.</p> <p>The latter three occupations would require an additional postgraduate qualification.</p>

Qualification	Programme Overview	Delivery mode & duration of study	APS Testing Band	APS*	Admission Requirements*	Career Opportunities
<b>BSc (Physical Science &amp; Mathematics)</b>	<p>BSc with two majors chosen from Chemistry, Mathematics or Physics.</p> <p>This programme will also launch you into a postgraduate programme at Nelson Mandela University in solid state physics, electron microscopy, crystal growth, optical fibre studies and renewable energy; all with an emphasis on materials development.</p> <p>In addition, the programme provides a platform from which students can enter the field of materials science and engineering. Materials scientists develop and analyze various alloys, ceramics and other novel materials. As such they play an increasingly important role in adding value to the range of minerals mined in South Africa.</p>	Full-time 3 years	30 – 39	40	<ul style="list-style-type: none"> <li>• Minimum NSC requirements for degree entry must be met.</li> <li>• English, Afrikaans or isiXhosa (home language or first additional language) on at least a level 3 (40–49%).</li> <li>• Mathematics 5 (60 - 69%).</li> </ul>	<p>The curriculum is based on the three cornerstone subjects in Science (Mathematics, Physics and Chemistry) and provides an excellent basis for postgraduate studies in these subjects.</p> <p>Furthermore, it offers a sensible subject combination for persons wishing to teach Physical Science and /or Mathematics up to senior secondary level.</p>

Columns marked with an asterisk (\*) indicate the minimum requirements for admission to a programme. Should you not meet these requirements but fall within the APS testing band you may be referred to write an access assessment test before an admissions decision is made.

# Contact Details

	South Campus	North Campus	Second Avenue Campus	Missionvale Campus	George Campus
<b>General Enquiries</b>	041 504 1111				044 801 5111
<b>Admission Enquiries</b>	041 504 1111/ 2593/ 2945				044 801 5194
<b>Arts, Culture &amp; Heritage</b>	041 504 2508				044 801 5029
<b>Student Recruitment</b>	041 504 1111				044 801 5111
<b>Financial Aid</b>	041 504 3182/1111/1242				044 801 5310
<b>Student Counseling, Career &amp; Development Centre (SCDC)</b>	041 504 2511	041 504 3222	041 504 3854	041 504 1106	044 801 5051/5168
<b>Student Housing</b>	041 1415/3690 (On-Campus) 041 504 4735/4736 (Off-campus)			No accommodation available	044 801 5034 (On-campus)
<b>Madibaz Sport</b>	041 504 2165			041 504 1244	044 801 5037/5111
<b>Access Assessment Testing (CAAR)</b>	041 504 2918				044 801 5051
<b>Campus Health Service</b>	041 504 2174	041 504 3364	041 504 2955	041 504 1374	044 801 5125
<b>Postgraduate / Mature Student Enquiries</b>	041 504 2162/9966				044 801 5111
<b>Office for International Education</b>	+27 (0)41 504 2161				+27 (0)44 801 5008
<b>Disability Unit</b>	041 504 2313				
Faculties					
<b>Faculty of Arts</b>	Faculty Administration - 041 504 3252/ 2855/ 2802/ 4608 /3478				<b>George Campus</b> <b>044 801 – 5048/5566</b>
<b>Faculty of Business &amp; Economic Sciences</b>	Faculty Administration – 041 504 3802 / 2248/ 2939/ 2801/ 3804/ 3707/ 3706				
<b>Faculty of Education</b>	Faculty Administration – 041 504 2125/ 4568				
<b>Faculty of Engineering, the Built Environment and Information Technology</b>	Faculty Administration – 041 504 3447/ 3446/ 3995/ 3660				
<b>Faculty of Health Sciences</b>	Faculty Administration – 041 504 1178/ 2957/ 2956/ 2749				
<b>Faculty of Law</b>	Faculty Administration – 041 504 2588/ 2474/ 1178				
<b>Faculty of Science</b>	Faculty Administration – 041 504 2268/ 2679/ 9922				

## Address of the University

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E admissions@mandela.ac.za or info@mandela.ac.za  
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## Address of the George Campus

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E george-info@mandela.ac.za  
W georgecampus.mandela.ac.za

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## Our Vision

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future.

## Our Mission

To offer a diverse range of life-changing educational experiences for a better world.

## Our Values



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