Your guide to the world of science

Stellenbosch UNIVERSITY IYUNIVESITHI UNIVERSITEIT

forward together
sonke siya phambili
saam vorentoe

The Faculty of Science is a leading knowledge partner in the development of the scientific, technological and intellectual capacity of Africa and South Africa, and plays an active role in the development of South Africa and its people.

A BSc degree will open doors to many opportunities in the world of work, but more importantly, it is a way of thinking that is critical to take humanity forward.

– Undergraduate BSc student

It is a challenging multidisciplinary course that focuses on the student's level of understanding rather than just absorbing and memorising information.

– Undergraduate BSc student

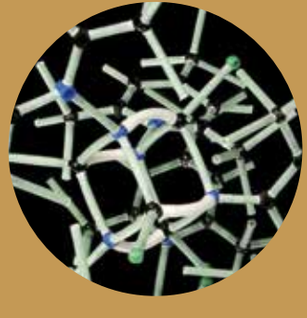
With an analytical mind, unceasing attention to detail, and a holistic approach, I believe no problem can withstand the assault of sustained thinking.

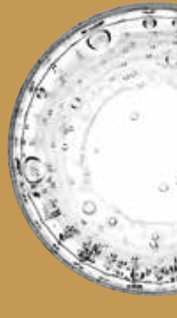
– Prof Chris Garbers, former CSIR president and chemistry lecturer at SU

STEP 1 Is science for me?

I am

- passionate about the natural sciences
- curious about the natural world
- always asking why, and how things work





At the Faculty of Science, each student is a critical, creative thinker and problem-solver.

BIOCHEMISTRY BOTANY AND ZOOLOGY EARTH SCIENCE CHEMISTRY AND POLYMER SCIENCE MATHEMATICS PHYSICS APPLIED MATHEMATICS COMPUTER SCIENCE MICROBIOLOGY PHYSIOLOGICAL SCIENCES

A BSc degree will

- broaden and intensify your scientific knowledge
- enhance your problem-solving, reasoning, and scientific communication skills
- provide you with a sound higher academic qualification as take-off for your professional career

STEP 2 What can I study?

The Faculty of Science offers 11 three-year BSc degree programmes in 4 broad fields: biological, physical, mathematical sciences, and an interdisciplinary field. In the interfaculty BDatSci programme we offer 3 of the 9 focal areas. Some programmes offer different subject combinations (curricula), known as focal areas. Below is a list of all the programmes and their additional focal areas where applicable.

Use the key to major/core subjects to find the programme you are interested in.

PHYSICAL SCIENCES

BSc in Chemistry

This programme provides students with training in the different fields of chemistry such as inorganic, organic, analytic, physical and polymer chemistry.

Majors

Focal area: Chemistry and Polymer Science:

7 + *a second major*

Focal area: Chemical Biology:

7 + 14

Focal area: Applied & Sustainable Chemistry

7 + 2

Specific admission requirements

Mathematics 6 AND Physical Sciences 4

BSc in Earth Science

This programme focuses on the practical and theoretical training in geology and geo-environmental science.

Majors/Core subjects

Focal area: Applied Earth Science:

17 15

Focal area: Geo-environmental Science:

17 11 16

Specific admission requirements

Mathematics 6 OR Mathematics 5 (depending on subject choice); AND Physical Sciences 4

BSc in Physics

This programme provides students with the Physics knowledge, technical and specific scientific skills required within Laser Physics, Nuclear Physics, Radiation and Health Physics and Theoretical Physics.

Majors/Core subjects

Focal areas: Laser Physics (Physical), Nuclear Physics, Radiation and Health Physics:

24 + 3 / 7 / 8 / 20

Focal area: Laser Physics (Biological):

24 4

Focal area: Theoretical Physics:

24 + 3 / 8 / 20

Specific admission requirements

Mathematics 6 AND Physical Sciences 4

BSc in GeoInformatics

This programme focuses on the theoretical, methodological and practical aspects of geo-informatics, used to record digitally, manipulate, analyse, model and map spatial information.

Majors

15 + 8 / 27

Specific admission requirements

Mathematics 6 OR Mathematics 5 (depending on subject choice); AND Physical Sciences 4

BIOLOGICAL SCIENCES

BSc in Biodiversity and Ecology

This programme focuses on the diversity, origin and function of organisms in relation to their environment and provides a conceptual understanding of animals and plants, ecology, evolution, biological changes on a global scale and remediation practices.

Majors

Focal area: Climate Change Ecology

5 + 15

Focal area: Plant & Animal Biodiversity

5 + 14

Focal area: Plants & Microbes

5 + 21

Specific admission requirements

Mathematics 5 AND Physical Sciences 4

BSc in Molecular Biology and Biotechnology

This programme gives you the background knowledge to understand the functioning of any living organism at molecular level and lays the foundation for a career requiring knowledge and skills in molecular cell biology and biotechnology.

Majors

4 14 21

Specific admission requirements

Mathematics 5 OR Mathematics 6 (depending on subject choice) AND Physical Sciences 4

BSc in Human Life Sciences

This programme provides the basis for understanding the functioning of the human body and mind, from molecular to systems level.

Majors

Focal area: Biology:

25 + 1 / 4 / 14

Specific admission requirements

Mathematics 5 OR Mathematics 6 (depending on subject choice) AND Physical Sciences 4

Majors

Focal area: Biology with Psychology:

25 26 14

Specific admission requirements

Mathematics 5 AND Physical Sciences 4

BSc in Sport Science

This programme studies body motion from various perspectives such as the physiological and biomechanical.

Majors

25 18

Specific admission requirements

Mathematics 5 AND Physical Sciences 4

MATHEMATICAL SCIENCES

BSc in Mathematical Sciences

This programme has various focal areas and allows students to choose from a range of fields in the mathematical sciences, including Mathematics, Applied Mathematics, and Operations Research.

Majors/Core subjects

Depending on the focal area you choose, it will be at least one of:

3 / 20 / 23

in combination with subjects from the mathematical sciences; or subjects from other disciplines such as:

7 / 8 / 10 / 12 / 13 / 19 / 22 / 24

Specific admission requirements

Mathematics 6 AND Physical Sciences 4 (if you take Physics or Chemistry)

BSc in Computer Science

The BSc in Computer Science will equip you with extensive knowledge of Computer Science, including programming, computer systems, databases, networks, operating systems and concurrent programming.

Majors/Core subjects

Focal area: General Computer Science:

8 + 3 / 10 / 13 / 14 / 15 / 19 / 20 / 22 / 23 / 24 / 28

Focal area: Computer Systems:

8 + 3

Focal area: Data Science:

8 + 9 / 19 / 28

Specific admission requirements

Mathematics 6 AND Physical Sciences 4 (if you take Physics or Chemistry)

You can also visit **www.maties.com** and click on "What can I study?" for more information.

INTERDISCIPLINARY BSc DEGREE

Typically, our programmes have a double major structure which prepares students for postgraduate studies in one of the two major subjects. However, the focal areas in the interdisciplinary BSc degree allow a more interdisciplinary approach that leads to multi-disciplinary postgraduate options.

Focal area: Biomedical Mathematical Sciences:

Combines fields such as Mathematical Sciences and the Biological Sciences, with postgraduate study possibilities in Physiological Sciences, Mathematics or Biomedical Engineering.

Majors

20 + 25

Focal area: Applied Medicinal Chemistry:

Combines Biological Sciences and Physical Sciences with Patent Law as third-year module. Postgraduate study possibilities in Physiological Sciences or Chemistry.

Majors

7 + 25

Focal area: Biomathematics:

Combines Applied Mathematics with Biochemistry or Biodiversity and Ecology, with postgraduate study possibilities in Biomathematics, Biochemistry, Botany, or Zoology.

Majors

3 + 4 / 5

Focal area: Bioinformatics and Computational Biology:

Combines Biochemistry, Bioinformatics, Computer Science and Genetics on a multidisciplinary level, with postgraduate study possibilities in Bioinformatics and Computational Biology.

Major

6

Specific admission requirements

Mathematics 6 AND Physical Sciences 4

DATA SCIENCE

Bachelor of Data Science

The BDatSci programme is an interdepartmental and interfaculty collaboration between the 4 faculties: Science, Economic and Management Sciences, AgriSciences and Arts and Social Sciences. The programme will give you a thorough grounding in all aspects of the data lifecycle, including data collection, processing, analysis, and visualisation. The faculty where you are registered, awards the degree. You can choose one of the following focal areas:

***Science:** Applied Mathematics; Computer Science; Statistical Physics*

***Economic and Management Sciences:** Statistical Learning; Analytics and Optimisation; Behavioural Economics*

***Arts and Social Sciences:** Geoinformatics*

***AgriSciences:** Statistical Genetics*

Specific admission requirements

An NSC aggregate of 80% (excl. Life Orientation) AND Mathematics 80% AND Afrikaans/English Home Language 60% OR Afrikaans/English First Additional Language 75%

KEY TO AVAILABLE SUBJECTS

1 *Anatomy*
2 *Applied Chemistry*
3 *Applied Mathematics*
4 *Biochemistry*
5 *Biodiversity and Ecology*
6 *Bioinformatics and Computational Biology*
7 *Chemistry*
8 *Computer Science*
9 *Data Science*
10 *Economics*
11 *Environmental Geochemistry*
12 *Financial Mathematics*
13 *General Linguistics*
14 *Genetics*
15 *Geographical Information Technology*
16 *Geography and Environmental Studies*
17 *Geology*
18 *Kinesiology*
19 *Mathematical Statistics*
20 *Mathematics*
21 *Microbiology*
22 *Music Technology*
23 *Operations Research*
24 *Physics*
25 *Physiology*
26 *Psychology*
27 *Socio-informatics*
28 *Statistics*

With a BSc degree, you have taken your first step into the fascinating world of science. Depending on your skills and interests, you can now build on this first degree by specialising in the field you are interested in, from a BSc Honours to an MSc and even a PhD.

Or you could diversify on your degree by registering for a post-graduate diploma in a complementary field, such as business, finance, marketing, journalism, agriculture, engineering or law. With a postgraduate certificate in education, (and depending on your subject combination), you can teach school subjects such as Geography, Physical Sciences, Life Orientation, Information Technology, Life Sciences, Mathematics, Natural Sciences and Mathematical Literacy.

However, remember that a BSc degree provides you with training in the ***fundamental sciences***. Therefore, you will have the ability to think critically when tackling problems, based on a solid knowledge foundation in the natural sciences. (Engineering and Medicine are examples of ***applied sciences***).

STEP 3 Do I qualify?

Applicants with NSC/IEB or any other school-leaving qualifications

Admission requirements are the **MINIMUM** requirements that must be met by an applicant to be **considered** for selection. The cut-off point of selection criteria may be higher, depending on the number of applications that are received for a specific programme and the number of available places.

- ☑ You must have an average of at least **65%** final school-leaving mark.**
- ☑ You must have obtained a minimum performance level of 4 for Afrikaans OR English (Home Language or First Additional Language).
- ☑ You must offer **Mathematics** as school subject and have obtained at least the minimum performance level as prescribed for the specific programme. Physical Science (Physics & Chemistry) is a requirement for most programmes.
- ☑ For the programme-specific requirements, visit www.maties.com and click on "Admission and Selection Requirements" on the dropdown menu under: "Apply"; or consult the latest Yearbook (at www.sun.ac.za/english/faculty/Pages/Calendar.aspx) and click on the Science block for the Faculty of Science Yearbook, which contains all the programme information.

Admission requirements for learners with international school-leaving qualifications are available at www.maties.com. Click on "International Curricula" on the dropdown menu under: "Apply".

Marks too low?

If you have already accepted a conditional offer, but your final grade 12 results fail to meet the minimum requirements, you may apply for an Extended Curriculum Programme. Places are limited and preference is given to South African socio-economically disadvantaged candidates. This route takes one year longer than the mainstream programme.

For more information, contact our recruitment officer at science@sun.ac.za

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Please refer to the Faculty of Science document on selection and admission at:

www.sun.ac.za/english/maties/Documents/Science.pdf

STEP 4 How do I apply?

Go to www.maties.com and complete an e-application online.

REMEMBER

Closing date for applications:
31 July

REMEMBER

Make an informed choice before you apply. If unsure, contact science@sun.ac.za or +27 21 808 3931 (office hours)

A BSc degree helps to develop your cognitive abilities and to view problems differently.

– Undergraduate BSc student

With a BSc degree, I am gaining scientific knowledge and the ability to analyse things objectively and critically, and how to apply this knowledge in the real world.

– Undergraduate BSc student

I expect to gain better understanding of how the world works from a molecular level up to ecosystems. This will help me to effect change.

– Undergraduate BSc student

www.sun.ac.za/science

Jou gids tot die wêreld van natuurwetenskappe

Stellenbosch UNIVERSITY IYUNIVESITHI UNIVERSITEIT

forward together
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saam vorentoe

Die Fakulteit Natuurwetenskappe is 'n leierkennisvennoot in die ontwikkeling van die wetenskaplike, tegnologiese en intellektuele kapasiteit van Afrika, sowel as Suid-Afrika, en speel 'n aktiewe rol in die ontwikkeling van Suid-Afrika en sy mense.

'n BSc-graad sal deure oopmaak na geleenthede in die beroepswêreld, maar belangriker nog, dit is 'n manier van dink wat van deurslaggewende belang is om die mensdom vorentoe te neem.

– Voorgraadse BSc-student

Dit is 'n uitdagende multi-dissiplinêre kursus wat fokus op die student se vlak van begrip, eerder as die blote inneem en memorisering van inligting.

– Voorgraadse BSc-student

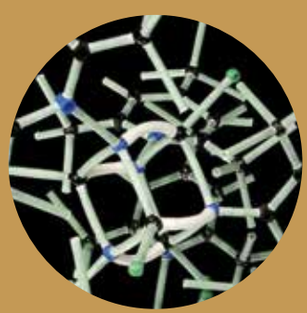
Met 'n analitiese intellek, voort-durende aandag aan detail, en 'n holistiese benadering, glo ek dat geen probleem die aanslag van volgehoue denke kan weerstaan nie.

– Prof Chris Garbers, voormalige president van die WNNR en chemiedosent aan die US

STAP 1 Is natuurwetenskappe vir my?

Ek is

- passievol oor natuurwetenskappe
- nuuskierig oor die wêreld en als wat lewe
- die een wat altyd vra "hoekom" en "hoe werk dit?"



Elke student van die Fakulteit Natuurwetenskappe is 'n kritiese, kreatiewe denker en probleemoplosser.

AARDWETENSKAP BIOCHEMIE PLANT- EN DIERKUNDE FISIKA CHEMIE EN POLIMEERWETENSKAP MIKROBIOLOGIE WISKUNDE FISIOLOGIESE WETENSKAPPE REKENAARWETENSKAP TOEGEPASTE WISKUNDE

'n BSc-graad sal

- jou wetenskapskennis verbreed en verdiep
- jou probleemoplossings-, beredenerings-, en wetenskapskommunikasievaardighede verbeter
- jou toerus met 'n hoër onderwyskwalifikasie wat op die fundamentele wetenskappe berus en as wegspringplek vir jou professionele loopbaan sal dien

STAP 2 Wat kan ek studeer?

Die Fakulteit Natuurwetenskappe bied 11 drie jaar lange BSc-graadprogramme aan in 4 breë velde: die biologiese, fisiese, en wiskundige wetenskappe, en 'n interdissiplinêre veld. Ons bied ook 3 van die 9 fokusareas van die interfakulteit BDatSci-program aan. Sommige programme het verskillende vakkombinasies (kurrikulums), wat bekend staan as fokusareas. Hieronder is 'n lys van die programme en hulle bykomende fokusareas, waar van toepassing.

Gebruik die sleutel tot hoof-/kernvakke om die program waarin jy belangstel, te vind.

FISIESE WETENSKAPPE

BSc in Chemie

Hierdie program bied studente opleiding in die verskillende velde van chemie wat anorganiese, organiese, analitiese, fisiese en polimeerchemie insluit.

Hoofvakke

Fokusarea: Chemie en Polimeerwetenskap:

6 + *'n tweede hoofvak*

Fokusarea: Chemiese Biologie:

6 3

Fokusarea: Toegepaste en Volhoubare Chemie:

6 + 25

Spesifieke toelatingsvereistes

Wiskunde 6 EN
Fisiese Wetenskappe 4

BSc in Fisika

Hierdie program rus studente toe met die Fisika-kennis, tegniese en spesifieke wetenskaps-vaardighede wat vereis word in Laserfisika, Kernfisika, Stralings- en Gesondheidsfisika, sowel as Teoretiese Fisika.

Hoofvakke/Kernvakke

Fokusareas: Laserfisika (Fisiese), Kernfisika, Stralings- en Gesondheidsfisika:

10 + 6 / 21 / 26 / 27

Fokusarea: Laserfisika (Biologiese):

10 3

Fokusarea: Teoretiese Fisika:

10 + 21 / 26 / 27

Spesifieke toelatingsvereistes

Wiskunde 6 EN
Fisiese Wetenskappe 4

BSc in Aardwetenskap

Hierdie program fokus op die praktiese en teoretiese opleiding in geologie en geo-omgewingswetenskap.

Hoofvakke/Kernvakke

Fokusarea: Toegepaste Aardwetenskap:

15 14

Fokusarea: Geo-omgewingswetenskap:

15 13 19

Spesifieke toelatingsvereistes

Wiskunde 6 OF
Wiskunde 5 (afhangend van jou vakkeuse); EN
Fisiese Wetenskappe 4

BSc in GeoInformatika

Hierdie program fokus op die teoretiese, metodologiese en praktiese aspekte van geo-informatika ten einde ruimtelike inligting digitaal vas te lê, te manipuleer, te ontleed, te modelleer en kartografies voor te stel.

Hoofvakke

14 + 21 / 24

Spesifieke toelatingsvereistes

Wiskunde 6 OF
Wiskunde 5 (afhangend van jou vakkeuse); EN
Fisiese Wetenskappe 4

BIOLOGIESE WETENSKAPPE

BSc in Biodiversiteit en Ekologie

Hierdie program fokus op die diversiteit, oorsprong en funksie van organismes in verhouding tot hul omgewing. Dit bied 'n konseptuele oorsig oor ekologie, evolusie, dier- en plantvorme en funksies, biologiese veranderinge op 'n globale skaal, en herstelmeganismes.

Hoofvakke

Fokusarea: Klimaats-verandering-ekologie

4 + 14

Fokusarea: Plant- en Dierebiodiversiteit

4 + 12

Fokusarea: Plante en Mikrobes

4 + 17

Spesifieke toelatingsvereistes

Wiskunde 5 EN
Fisiese Wetenskappe 4

BSc in Molekulêre Biologie en Biotegnologie

Hierdie program gee jou die vakkundige agtergrond om die werking van enige lewende organisme op molekulêre vlak te verstaan. Dit lê die grondslag vir 'n loopbaan wat kennis en vaardighede in molekulêre selbiologie en biotegnologie vereis.

Hoofvakke

3 12 17

Spesifieke toelatingsvereistes

Wiskunde 5 OF
Wiskunde 6 (afhangend van jou vakkeuse) EN
Fisiese Wetenskappe 4

BSc in Menslike Lewenswetenskappe

Hierdie program vorm die basis vir jou begrip van die funksionering van die liggaam as geheel, van molekulêre tot sisteemvlak.

Hoofvakke

Fokusarea: Biologie:

11 + 2 / 3 / 12

Spesifieke toelatingsvereistes

Wiskunde 5 OF
Wiskunde 6 (afhangend van jou vakkeuse) EN
Fisiese Wetenskappe 4

Hoofvakke

Fokusarea: Biologie met Sielkunde:

11 12 22

Spesifieke toelatingsvereistes

Wiskunde 5 EN
Fisiese Wetenskappe 4

BSc in Sportwetenskap

Hierdie program bestudeer liggaamsbeweging vanuit verskillende perspektiewe, soos o.a. op fisiologiese en biomeganiese vlak.

Hoofvakke

11 16

Spesifieke toelatingsvereistes

Wiskunde 5 EN
Fisiese Wetenskappe 4

WISKUNDIGE WETENSKAPPE

BSc in Wiskundige Wetenskappe

Hierdie program bied verskeie fokusareas en laat studente toe om uit verskillende velde in die wiskundige wetenskappe te kies. Dit sluit in Wiskunde, Operasionele navorsing, en Toegepaste Wiskunde.

Hoofvakke/Kernvakke

Afhangend van die fokusarea wat jy kies, sal dit één wees van:

20 / 26 / 27

In kombinasie met vakke uit die wiskundige wetenskappe; of vakke uit ander dissiplines soos:

1 / 6 / 8 / 9 / 10 / 18 / 21 / 28

Spesifieke toelatingsvereistes

Wiskunde 6; EN
Fisiese Wetenskappe 4 (as jy Chemie of Fisika wil neem)

BSc in Rekenaar-wetenskap

Hierdie program rus jou toe met 'n uitgebreide kennis van rekenaarwetenskap wat programmering, rekenaarstelsels, databasisse, netwerke, bedryfstelsels en gelyklopende programmering insluit.

Hoofvakke/Kernvakke

Fokusarea: Algemene Rekenaarwetenskap:

21 + 1 / 8 / 10 / 12 / 14 / 18 / 20 / 23 / 26 / 27 / 28

Fokusarea: Rekenaarstelsels:

21 26

Fokusarea: Datawetenskap:

21 + 7 / 23 / 28

Spesifieke toelatingsvereistes

Wiskunde 6; EN
Fisiese Wetenskappe 4 (as jy Chemie of Fisika wil neem)

Vir meer inligting, kan jy ook gaan na **www.maties.com** en klik op "Wat kan ek studeer?"

INTERDISSIPLINÊRE BSc-GRAAD

Ons programme het tipies 'n dubbele hoofvak-struktuur wat studente voorberei vir nagraadse studies in een van die twee hoofvakke. Die fokusareas in die interdissiplinêre BSc-graad volg 'n meer interdissiplinêre benadering wat na multidissiplinêre nagraadse opsies lei.

Fokusarea: Biomediese Wiskundige Wetenskappe:

Hierdie fokusarea kombineer velde soos Wiskundige Wetenskappe en die Biologiese Wetenskappe, met nagraadse studiemoontlikhede in Fisiologiese Wetenskappe, Wiskunde of Biomediese Ingenieurswese.

Hoofvakke

27 + 11

Fokusarea: Toegepaste Medisinale Chemie:

Kombineer Biologiese Wetenskappe en Fisiese Wetenskappe met Patentreg as derdejaarsmodule. Nagraadse studiemoontlikhede in Fisiologiese Wetenskappe of Chemie.

Hoofvakke

6 + 11

Fokusarea: Bioinformatika en Berekeningsbiologie

Kombineer Biochemie, Bioinformatika, Rekenaarwetenskap en Genetika op 'n multidissiplinêre vlak, met nagraadse studiemoontlikhede in Bioinformatika en Berekeningsbiologie.

Hoofvak

5

Fokusarea: Biowiskunde

Kombineer Toegepaste Wiskunde met Biochemie of Biodiverstieit en Ekologie, met nagraadse studiemoontlikhede in Biowiskunde, Biochemie, Plantkunde, of Dierkunde.

Hoofvakke

26 + 3 / 4

Spesifieke toelatingsvereistes

Wiskunde 6 EN
Fisiese Wetenskappe 4

DATA-WETENSKAP

Baccalaureus in Datawetenskap

Die BDatSci-program is 'n interdepartementle en interfakulteitsamewerking tussen die 4 fakulteite: Natuurwetenskappe, Ekonomiese en Bestuurs-wetenskappe, Agriwetenskappe en Lettere en Sosiale Wetenskappe. Die program sal jou 'n deeglike onderbou in alle aspekte van die data-lewensiklus gee, wat data-insameling, -prosessering, -analise en -visualisering insluit. Die fakulteit waarin jy geregistreer is, sal die graad aan jou toeken. Jy kan een van die volgende fokusareas kies.

Natuurwetenskappe: Rekenaarwetenskap; Statistiese Fisika; Toegepaste Wiskunde

Agriwetenskappe: Statistiese Genetika

Ekonomiese en Bestuurswetenskappe: Analitika en Optimering; Gedragsekonomie; Statistiese Leer

Lettere en Sosiale Wetenskappe: GeoInformatika

Spesifieke toelatingsvereistes

'n NSS-gemiddelde van 80% (Lewensoriëntering uitgesluit) EN
Wiskunde 80% EN
Afrikaans/Engels Huistaal 60% OF
Afrikaans/Engels Eerste Addisionele Taal 75%

SLEUTEL TOT BESKIKBARE VAKKE

1 *Algemene Taalwetenskap*
2 *Anatomie*
3 *Biochemie*
4 *Biodiversiteit en Ekologie*
5 *Bioinformatika en Berekeningsbiologie*
6 *Chemie*
7 *Datawetenskap*
8 *Ekonomie*
9 *Finansiële wiskunde*
10 *Fisika*
11 *Fisiologie*
12 *Genetika*
13 *Geografie en Omgewingstudie*
14 *Geografiese Inligtingstegnologie*
15 *Geologie*
16 *Kinesiologie*
17 *Mikrobiologie*
18 *Musiektegnologie*
19 *Omgewingsgeochemie*
20 *Operasionele Navorsing*
21 *Rekenaarwetenskap*
22 *Sielkunde*
23 *Statistiek*
24 *Sosio-informatika*
25 *Toegepaste Chemie*
26 *Toegepaste Wiskunde*
27 *Wiskunde*
28 *Wiskundige Statistiek*

'n BSc-graad is die eerste tree na die fassinerende wêreld van die wetenskap. Afhangend van jou vaardighede en belangstelling, kan jy nou voortbou op hierdie eerste graad deur te spesialiseer in die veld wat jou interesseer – van 'n HonneursBSc tot 'n MSc en selfs 'n PhD.

Of jy kan diversifiseer en jou vaardighede uitbrei deur in te skryf vir 'n nagraadse diploma in 'n komplementêre veld soos besigheid, finansies, bemarking, joernalistiek, ingenieurswese, landbou of die regte. Met 'n nagraadse onderwyssertifikaat (en afhangend van jou vakkombinasie) kan jy skoolvakke gee soos Geografie, Fisiese Wetenskap, Lewens-oriëntering, Inligtingstegnologie, Wiskunde, Lewenswetenskappe, Natuurwetenskappe en Wiskundige Geletterdheid.

Onthou egter dat 'n BSc-graad jou in die ***fundamentele wetenskappe*** oplei. Daarom sal jy oor die vermoë beskik om probleme deur middel van kritiese denke te ontrafel, gegrond op 'n stewige basis in die natuurwetenskappe. (Ingenieurswese en Geneeskunde is voorbeelde van ***toegepaste wetenskappe***).

STAP 3 Voldoen ek aan die vereistes?

Aansoekers met NSS/IEB of enige ander skoolverlatingskwalifikasie

Toelatingsvereistes is die **MINIMUM** vereistes waaraan 'n aansoeker moet voldoen om vir keuring **oorweeg** te word. Keuringskriteria se afsnypunt kan moontlik hoër wees, afhangend van die getal aansoeke wat vir 'n spesifieke program ontvang word en die aantal beskikbare plekke.

- ☑ Jy moet 'n gemiddeld van minstens **65%** in jou finale skoolverlatingseksamen behaal.**
- ☑ Jy moet 'n minimum prestasievlak van 4 vir Afrikaans OF Engels (Huistaal of Eerste Addisionele Taal) behaal.
- ☑ Jy moet **Wiskunde** as skoolvak hê en minstens die minimum prestasievlak behaal, volgens die programspesifieke vereistes. Fisiese Wetenskappe (Fisika & Chemie) is 'n vereiste vir die meeste programme.
- ☑ Vir die programspesifieke toelatingsvereistes, gaan na www.maties.com en klik op "Toelating- en keuringsvereistes" op die kieslys onder: "Aansoek"; of raadpleeg die Jaarboek (by http://www.sun.ac.za/afrikaans/faculty/Pages/Calendar.aspx) en klik op die Natuurwetenskappe-blokkie vir die Fakulteit Natuurwetenskappe se Jaarboek. Alle programinligting is daarin vervat.

Toelatingsvereistes vir leerders met internasionale skoolverlatingskwalifikasies is beskikbaar by www.maties.com. Klik op "Internasionale Kurrikulums" op die kieslys onder: "Aansoek".

Punte te laag?

Indien jy reeds 'n voorwaardelike aanbod aanvaar het, maar jou finale Graad 12-vakke se punte voldoen nie aan die minimum vereistes nie, kan jy aansoek doen vir 'n Verlengde Kurrikulumprogram (VKP). Plekke is beperk en Suid-Afrikaanse sosio-ekonomies benadeelde kandidate kry voorkeur. Hierdie roete neem een jaar langer as die hoofstroomgraadprogram.

Vir meer inligting, kontak ons werwingsbeampte by science@sun.ac.za

** **Raadpleeg asseblief die Fakulteit Natuurwetenskappe-dokument oor keuring en toelating by: www.sun.ac.za/english/maties/Documents/Science.pdf**

STAP 4 Hoe doen ek aansoek?

Gaan na www.maties.com en voltooi die aansoekvorm aanlyn.

ONTHOU

Sluitingsdatum vir aansoeke:
31 Julie

ONTHOU

Neem 'n ingeligte besluit vóór jy aansoek doen. As jy onseker is, kontak science@sun.ac.za of +27 21 808 3931 (kantoorure)

'n BSc-graad help jou om jou kognitiewe vermoëns te ontwikkel en probleme anders te benader.
– Voorgraadse BSc-student

Met 'n BSc-graad, kry ek wetenskapskennis en die vermoë om dinge objektief en krities te analiseer, en ek leer hoe om hierdie kennis in die werklike lewe toe te pas.
– Voorgraadse BSc-student

Ek verwag om 'n beter begrip te kry van hoe die wêreld funksioneer, van molekulêre vlak tot op ekosisteemvlak. Dit sal my help om verandering teweeg te kan bring.
– Voorgraadse BSc-student

www.sun.ac.za/science