

Welkom by die  
**Noordwes-Universiteit**  
en spesifiek by Fakulteit Natuurwetenskappe.

*Welcome to the  
**North-West University**  
and specifically to the Faculty of Natural Sciences.*

Dit begin alles hier ®

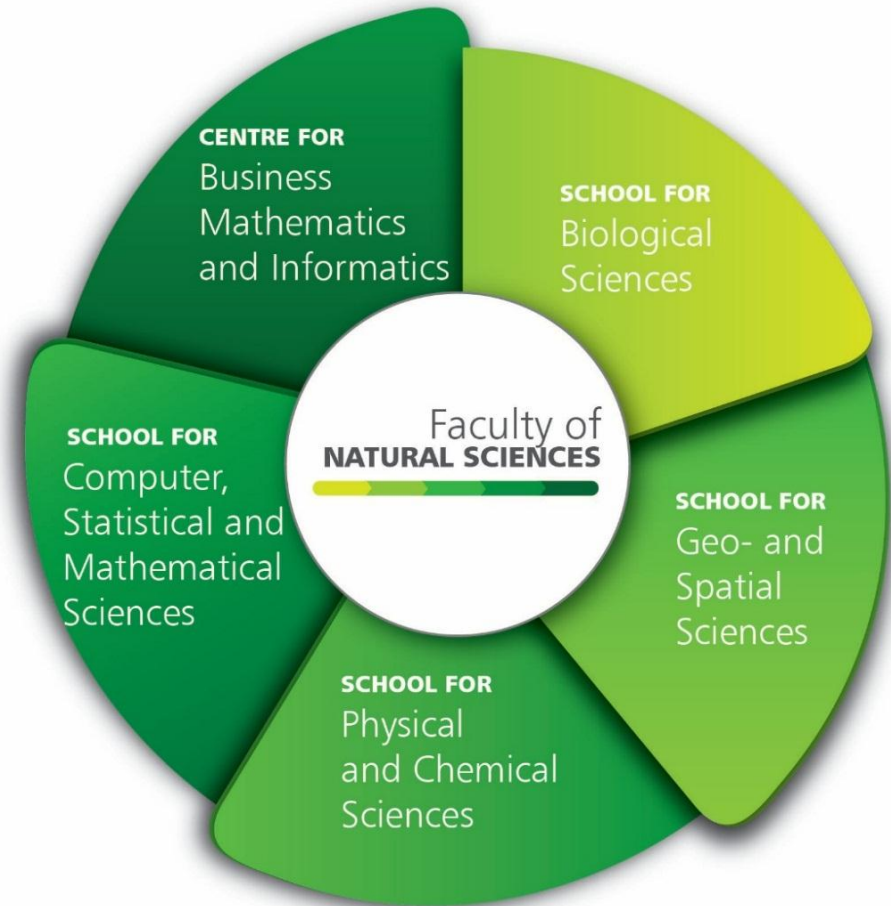


NORTH-WEST UNIVERSITY ®  
YUNIBESITI YA BOKONE-BOPHIRIMA  
NOORDWES-UNIVERSITEIT  
POTCHEFSTROOMKAMPUS

Wat voornemende studente van  
Fakulteit Natuurwetenskappe moet weet

*What prospective students need to know  
about the Faculty of Natural Sciences*

# 4 Voorgraadse Skole en 1 Sentrum | 4 Undergraduate Schools and 1 Centre

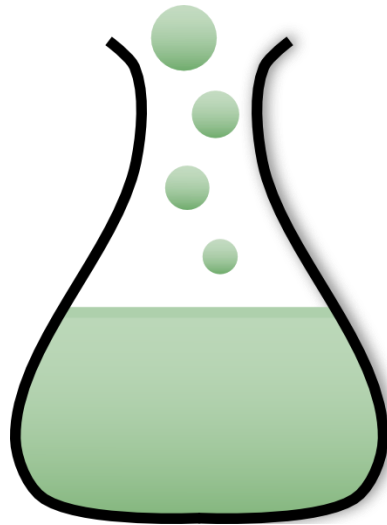


Wat kan ek by die Noordwes-Universiteit  
Fakulteit Natuurwetenskappe  
studeer?

*What can I study at the North-West  
University's Faculty of Natural Sciences?*

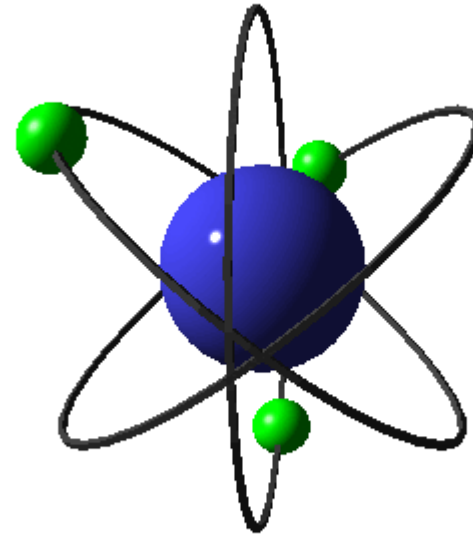
# Skool vir Fisiese en Chemiese Wetenskappe:

## Chemie



Studie van die eienskappe en interaksies van materie

## Fisika

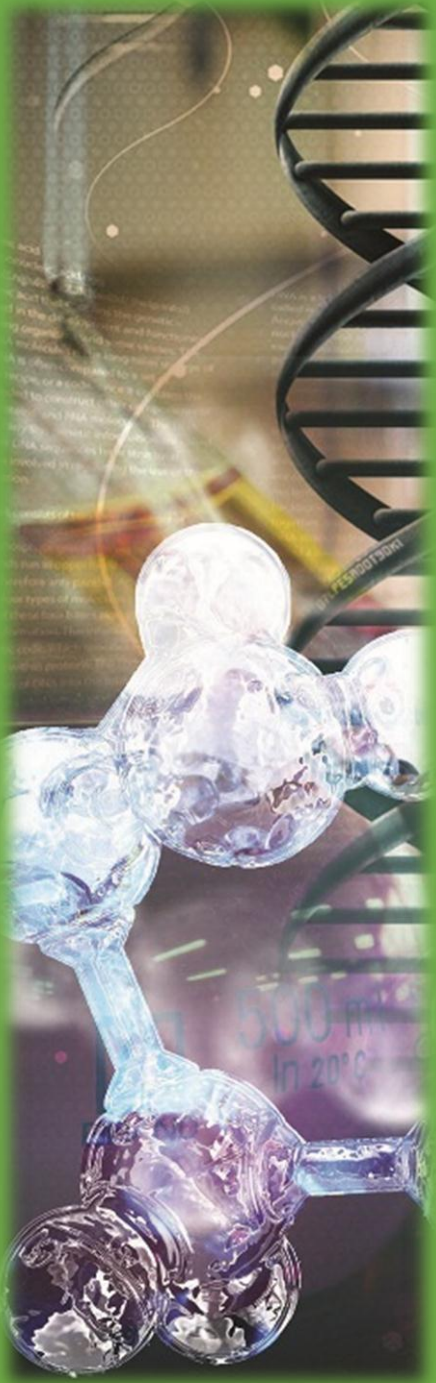


Studie van natuurwette

## Biochemie

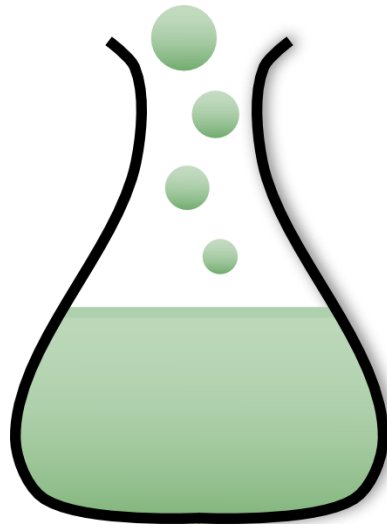


Studie van die chemiese basis van lewensverskynsels



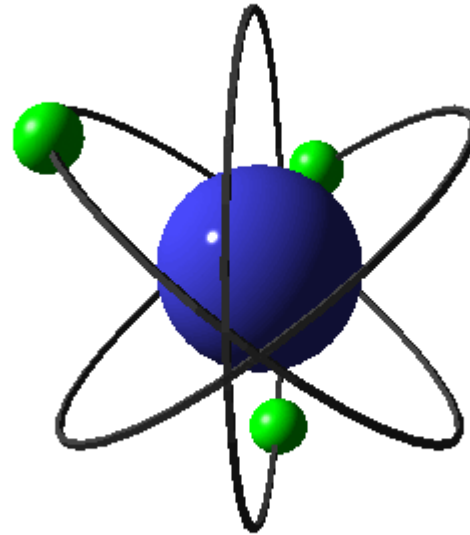
# School for Physical and Chemical Sciences:

## Chemistry



The study of the  
properties  
and interactions  
of matter

## Physics

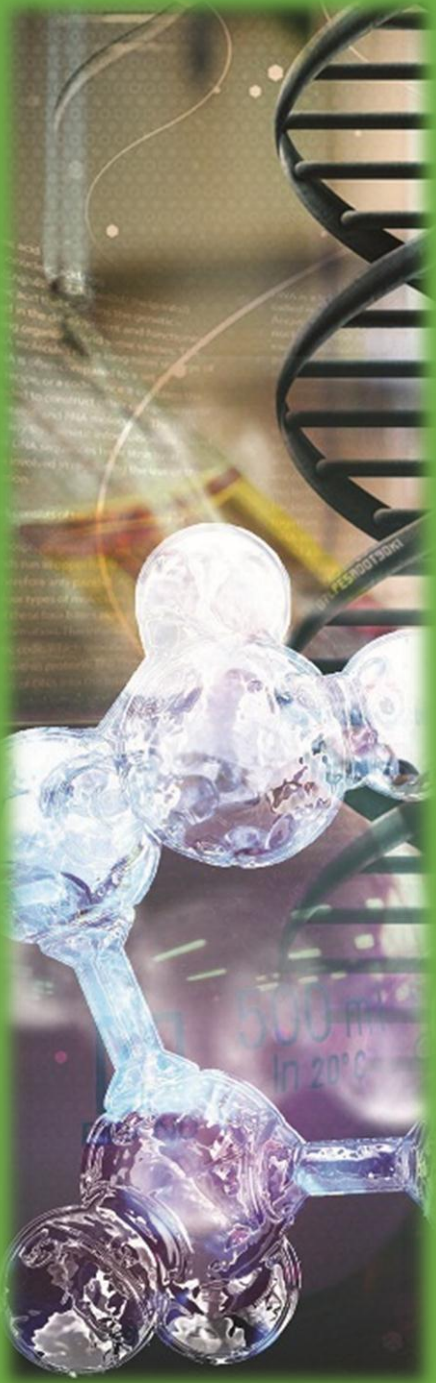


The study of  
natural laws

## Biochemistry



The study of  
the chemical basis  
of life  
phenomena





# Skool vir Fisiese en Chemiese Wetenskappe:

BSc (3jr) Program: Fisiese en Chemiese Wetenskappe

## Kurrikulums:

- Chemie – Fisika
- Chemie – Wiskunde – Toegepaste Wiskunde
- Fisika – Wiskunde
- Fisika – Toegepaste Wiskunde
- Chemie – Biochemie

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde Vlak 5 (60% - 69%)
- Fisiese Wetenskappe Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Physical and Chemical Sciences:

BSc (3yrs) Programme: Physical and Chemical Sciences

## Curriculums:

- Chemistry – Physics
- Chemistry – Mathematics – Applied Mathematics
- Physics – Mathematics
- Physics – Applied Mathematics
- Chemistry – Biochemistry

## Required NSC Subjects & Selection Criteria:

- Mathematics Level 5 (60% - 69%)
- Physical Science Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017



# Skool vir Biologiese Wetenskappe:

## Dierkunde



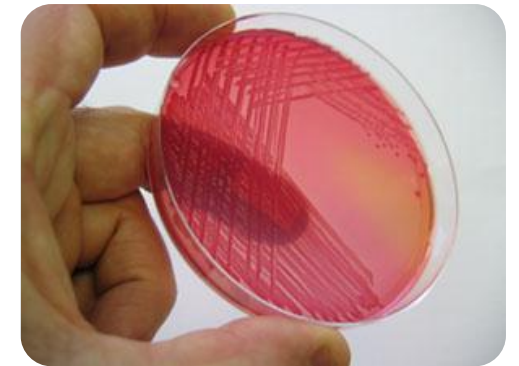
Studie van  
die interaksie  
van diere  
met hul omgewing

## Plantkunde



Studie van  
plante van  
eensellige alge  
tot blomplante

## Mikrobiologie



Studie van  
bakterieë, fungi,  
virsusse, alge  
en protosoë



# School for Biological Sciences:

## Zoology



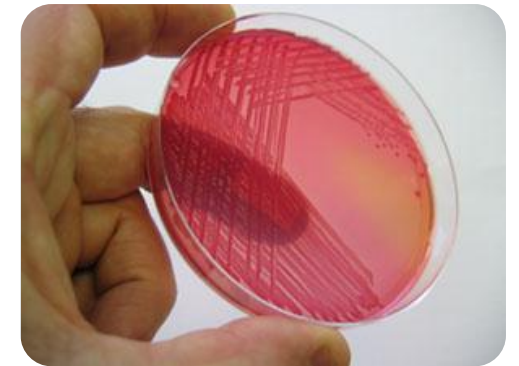
The study of the interaction of animals with their environment

## Botany



The study of plants ranging from unicellular algae to flowering plants

## Microbiology



The study of bacteria, fungi, viruses, algae and protozoa



# Skool vir Geo- en Ruimtelike Wetenskappe:

## Geografie en Omgewingsbestuur



Studie van die mens en sy interaksies met die natuur

## Geologie en Grondkunde



Studie van aard-materie en prosesse

## Stads- en Streekbeplanning



Studie en beplanning van stede

# School for Geo-Spatial Sciences:

## Geography and Environmental Management



The study of man and his interactions with nature

## Geology and Soil Science



The study of nature-matter and related processes

## Urban and Regional Planning



The study and planning of cities

# Skool vir Biologiese Wetenskappe & Skool vir Geo- en Ruimtelike Wetenskappe:

BSc (3jr) Program: Omgewingswetenskappe

## Kurrikulums:

- |                           |                              |
|---------------------------|------------------------------|
| (1) Plantkunde – Chemie   | (6) Dierkunde – Geografie    |
| (2) Dierkunde – Chemie    | (7) Geografie – Plantkunde   |
| (3) Geologie – Chemie     | (8) Dierkunde – Geologie     |
| (4) Geologie – Geografie  | (9) Geologie – Mikrobiologie |
| (5) Geologie – Plantkunde |                              |

## Vereiste NSS-Vakke & Keuringsvereistes:

- 1 - 3: Wiskunde Vlak 5 (60% - 69%) en Fisiese Wetenskappe Vlak 4 (50% - 59%)
- 4 – 9: Wiskunde Vlak 4 (50% - 59%) en Fisiese Wetenskappe Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Biological Sciences & School for Geo and Spatial Sciences:

BSc (3yrs) Programme: Environmental Sciences

## Curriculums:

- |                         |                            |
|-------------------------|----------------------------|
| (1) Botany – Chemistry  | (6) Zoology – Geography    |
| (2) Zoology – Chemistry | (7) Geography – Botany     |
| (3) Geology – Chemistry | (8) Zoology – Geology      |
| (4) Geology – Geography | (9) Geology – Microbiology |
| (5) Geology – Botany    |                            |

## Required NSC Subjects & Selection Criteria:

- 1 – 3: Mathematics Level 5 (60% - 69%) and Physical Science level 4 (50%-59%)
- 4 – 9: Mathematics Level 4 (50% - 59%) Physical Sciences: Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017



# Skool vir Biologiese Wetenskappe & Skool vir Geo- en Ruimtelike Wetenskappe:

BSc (3jr) Program: Biologiese Wetenskappe

## Kurrikulums:

- |                            |                                |
|----------------------------|--------------------------------|
| (1) Plantkunde – Biochemie | (5) Mikrobiologie – Fisiologie |
| (2) Chemie – Fisiologie    | (6) Dierkunde – Mikrobiologie  |
| (3) Dierkunde – Biochemie  | (7) Dierkunde – Plantkunde     |
| (4) Dierkunde – Fisiologie | (8) Mikrobiologie – Plantkunde |

## Vereiste NSS-Vakke & Keuringsvereistes:

- 1 – 3: Wiskunde Vlak 5 (60% - 69%) en Fisiese Wetenskappe Vlak 4 (50% - 59%)
- 4 – 8: Wiskunde Vlak 4 (50% - 59%) en Fisiese Wetenskappe Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Biological Sciences & School for Geo-Spatial Sciences:

BSc (3yrs) Programme: Biological Sciences

## Curriculums:

- |                            |                               |
|----------------------------|-------------------------------|
| (1) Botany – Biochemistry  | (5) Microbiology – Physiology |
| (2) Chemistry – Physiology | (6) Zoology – Microbiology    |
| (3) Zoology – Biochemistry | (7) Zoology – Botany          |
| (4) Zoology – Physiology   | (8) Microbiology – Botany     |

## Required NSC Subjects & Selection Criteria:

- 1 – 3: Mathematics Level 5 (60% - 69%) and Physical Science Level 4 (50% - 59%)
- 4 – 8: Mathematics Level 4 (50% - 59%) and Physical Science Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017





# Skool vir Biologiese Wetenskappe & Skool vir Geo- en Ruimtelike Wetenskappe:

BSc (3jr) Program: Omgewings- en Biologiese Wetenskappe

## Kurrikulums:

- (1) Mikrobiologie – Biochemie
- (2) Mikrobiologie – Chemie
- (3) Geografie – Rekenaarwetenskap

## Vereiste NSS-Vakke & Keuringsvereistes:

- 1 – 2: Wiskunde: Vlak 5 (60% - 69%)
- 3: Wiskunde: Vlak 4 (50% - 59%)
- Fisiese Wetenskappe: Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Biological Sciences & School for Geo-Spatial Sciences:

BSc (3yrs) Programme: Environmental and Biological Sciences

## Curriculums:

- (1) Microbiology – Biochemistry
- (2) Microbiology – Chemistry
- (3) Geography and Computer Science

## Required NSC Subjects & Selection Criteria:

- 1 – 2 : Mathematics: Level 5 (60% - 69%)
- 3: Mathematics: Level 4 (50% - 59%)
- Physical Science: Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017



# Skool vir Biologiese Wetenskappe & Skool vir Geo- en Ruimtelike Wetenskappe:

BSc (3jr) Program: Toerisme

## Kurrikulums:

- Toerisme – Dierkunde – Plantkunde
- Toerisme – Geografie – Plantkunde
- Toerisme – Geografie - Dierkunde

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 4 (50% - 59%)
- Fisiese Wetenskappe: Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Biological Sciences & School for Geo-Spatial Sciences:

BSc (3yrs) Programme: Tourism

## Curriculums:

- Tourism – Zoology – Botany
- Tourism – Geography – Botany
- Tourism – Geography - Zoology

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 4 (50% - 59%)
- Physical Sciences: Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017





# Skool vir Geo- en Ruimtelike Wetenskappe:

BArt et Scien (4jr): Stads- en Streekbeplanning

## Kurrikulum:

- Stads- en Streekbeplanning met Geografie en Omgewingstudies

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 5 (60% - 69%)
- APS Telling: 28
- Keuringstoets: Ja
- Aansoeke Sluit: 30 Junie 2017
- Laat aansoeke sal op meriete oorweeg word
- Max 30 studente word gekeur
- Doen vroeg aansoek (voor 31 Mei 2017)
- Kontak Stads- en Streekbeplanning by: 018 299 2486 (Sekretaresse)



# School for Geo and Spatial Sciences:

BArt et Scien (4yrs): Urban and Regional Planning

## Curriculum:

- Urban and Regional Planning with Geography and Environmental Studies

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 5 (60% - 69%)
- APS Count: 28
- Selection Test: Yes
- Applications Close: 30 June 2017
- Late applications will be considered on merit
- Max 30 students are accepted
- Apply as early as possible (Before 31 May 2017)
- Contact Urban and Regional Planning on: 018 299 2486 (Secretary)

# Skool vir Rekenaar-, Statistiese en Wiskundige Wetenskappe:

## Rekenaarwetenskap en Inligtingstelsels



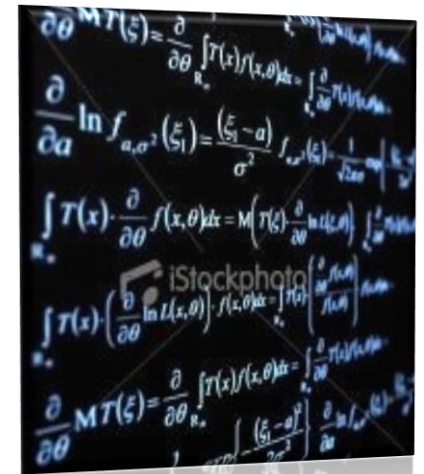
Studie van  
rekenaars,  
algoritmes en  
inligtingsprosesse

## Statistiek



Studie van  
groot  
numeriese  
datastelle en  
interpretering  
daarvan

## Wiskunde en Toegepaste Wiskunde



Studie van  
getalle,  
hoeveelhede  
en ruimte

# School for Computer, Statistical and Mathematical Sciences:

## Computer Sciences and Information Systems



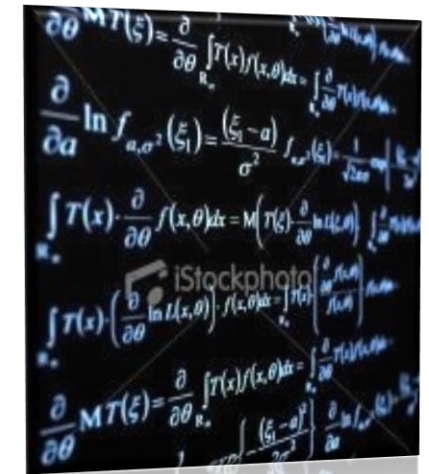
The study of  
computers,  
algorithms and  
information  
processing

## Statistics



The study of  
large numerical data  
sets and the  
interpretation  
thereof

## Mathematics and Applied Mathematics



The study of  
numbers, quantities  
and space





# Skool vir Rekenaar-, Statistiese en Wiskundige Wetenskappe:

BSc (3jr) Program: Rekenaar- en Wiskundige Wetenskappe

## Kurrikulums:

- Fisika – Rekenaarwetenskap
- Rekenaarwetenskap – Statistiek
- Rekenaarwetenskap – Wiskunde
- Statistiek – Wiskunde
- Wiskunde

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 5 (60% - 69%)
- Fisiese Wetenskappe: Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Computer, Statistical and Mathematical Sciences:

BSc (3yrs) Programme: Computer and Mathematical Sciences

## Curriculums:

- Physics – Computer Science
- Computer Science – Statistics
- Computer Science – Mathematics
- Statistics – Mathematics
- Mathematics

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 5 (60% - 69%)
- Physical Science: Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017



# Skool vir Rekenaar-, Statistiese en Wiskundige Wetenskappe:

BSc (3jr) Program: Rekenaar- en Wiskundige Wetenskappe

## Kurrikulums:

- Rekenaarwetenskap – Ekonomie
- Wiskunde - Ekonomie

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 5 (60% - 69%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Computer, Statistical and Mathematical Sciences:

BSc (3yrs) Programme: Computer and Mathematical Sciences

## Curriculums:

- Computer Science – Economics
- Mathematics - Economics

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 5 (60% - 69%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017



# Skool vir Rekenaar-, Statistiese en Wiskundige Wetenskappe:

BSc (3jr) Program: Inligtingstegnologie en Rekenaarwetenskap

## Kurrikulum:

- Inligtingstegnologie – Rekenaarwetenskap

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 4 (50% - 59%)
- APS Telling: 26
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



# School for Computer, Statistical and Mathematical Sciences

BSc (3yrs) Programme: Information Technology – Computer Science

## Curriculum:

- Information Technology – Computer Science

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 4 (50% - 59%)
- APS Count: 26
- Selection Test: No
- Applications Close: 30 September 2017

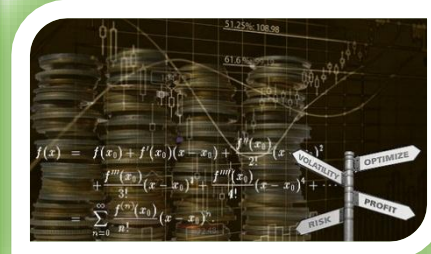
# Sentrum vir Bedryfswiskunde en Informatika (BWI):

## Kwantitatiewe Risikobestuur



Die gebruik van meetbare en objektiewe data om batewaarde, waarskynlikheid van verlies en gepaardgaande risiko(s) te bepaal

## Finansiële Wiskunde



Die tak van Toegepaste Wiskunde gefokus op die finansiële markte

## Data-Ontginning

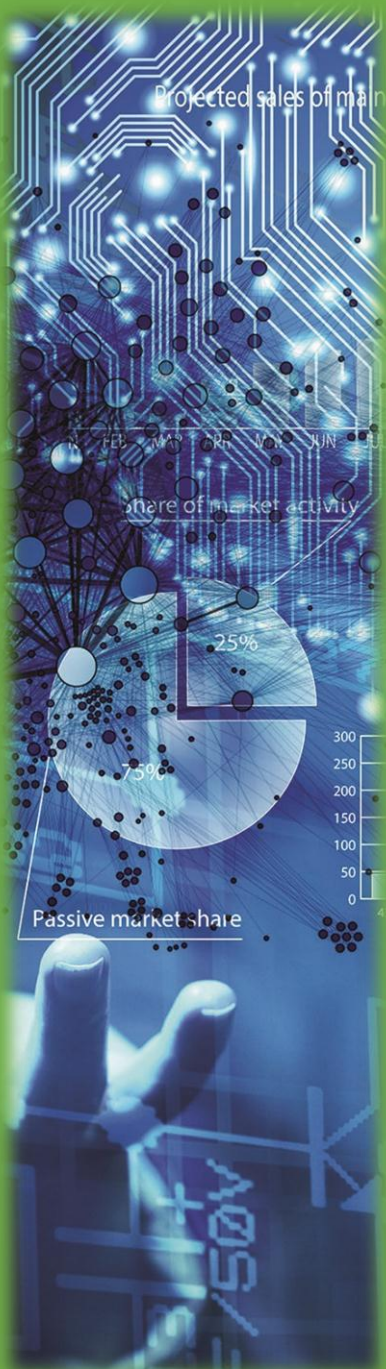


Die proses van patrone in groot datastelle ontdek

## Aktuariële Wetenskap



'n Dissipline wat handel oor die beoordeling van die risiko's in die versekering en finansiële velde met behulp van verskeie wiskundige en statistiese metodes



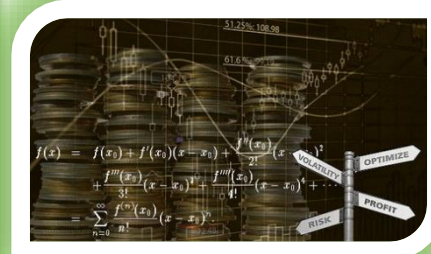
# Centre for Business Mathematics and Informatics (BWI):

## Quantitative Risk Management



The use of measurable, objective data to determine asset value, probability of loss, and associated risk(s)

## Financial Mathematics



The branch of applied mathematics focused on the financial markets

## Data Mining



The process of discovering patterns in large data sets

## Actuarial Science



A discipline that deals with assessing the risks in the insurance and finance fields using various mathematical and statistical methods



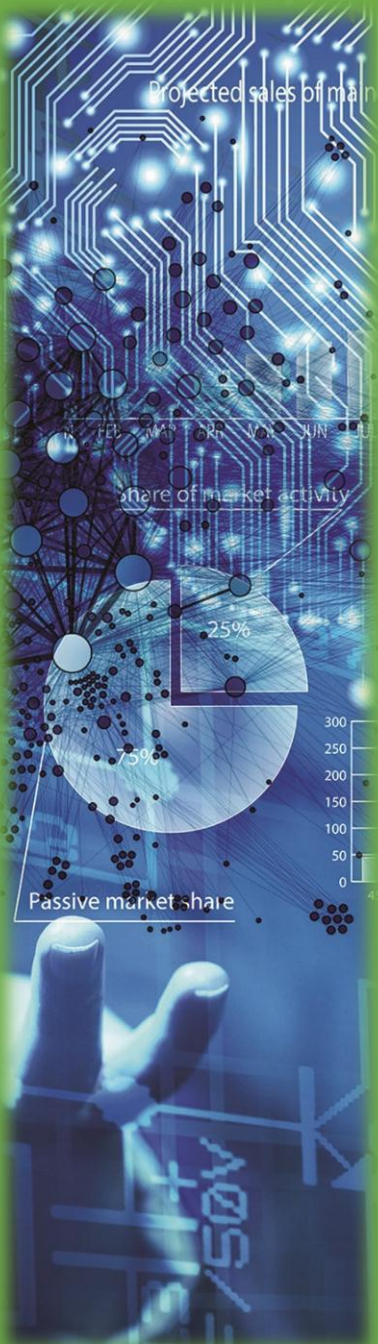
# Sentrum vir Bedryfswiskunde en Informatika (BWI):

## Programme:

- BSc (3jr): Kwantitatiewe Risikobestuur
- BSc (3jr): Finansiële Wiskunde
- BSc (3jr): Data-Ontginnig
- BSc (3jr): Aktuariële Wetenskap

## Vereiste NSS-Vakke & Keuringsvereistes:

- Wiskunde: Vlak 6 (70% en hoër)
- APS Telling: 32
- Keuringstoets: Nee
- Aansoeke Sluit: 30 September 2017



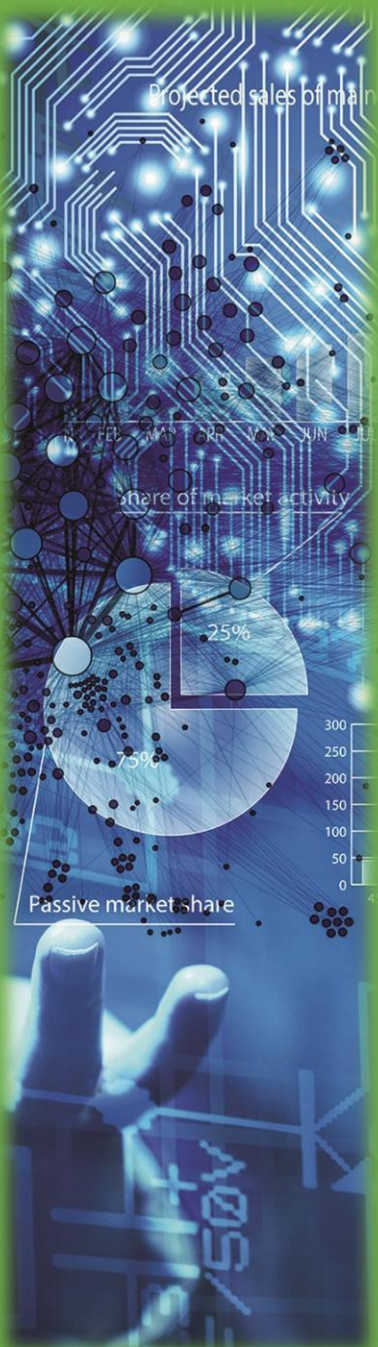
# Centre for Business Mathematics and Informatics (BWI):

## Programmes:

- BSc (3yrs): Quantitative Risk Management
- BSc (3yrs): Financial Mathematics
- BSc (3yrs): Data Mining
- BSc (3yrs): Actuarial Science

## Required NSC Subjects & Selection Criteria:

- Mathematics: Level 6 (70% and higher)
- APS Count: 32
- Selection Test: No
- Applications Close: 30 September 2017





Amptelike Opedag van NWU-Pukke: 6 Mei 2017  
Aansoek doen vanaf 1 Maart 2017 (Web/F20)  
So vroeg as moontlik, ons raak gou vol!

*Official Openday for NWU-Pukke: 6 May 2017*  
*Applications from 1 March 2017 (Web/F20)*  
*As early as possible, we fill up quickly!*

# Kontak Ons/*Contact Us:* Dekaanskantoor/*Office of the Dean:*

Algemene Navrae/  
*General Queries:*  
Lizelle le Roux  
018 299 2301

Administratiewe Bestuurder/  
*Administrative Manager:*  
Heleen Swart  
018 299 2304

Skakelbeampte/  
*Liaison Officer:*  
Ashleigh Pieterse  
018 299 2711



Fakulteit Natuurwetenskappe NWU-Pukke



[www.natural-sciences.nwu.ac.za](http://www.natural-sciences.nwu.ac.za)



@Natuurwetenskap

*Hou jou vakadviseursinligtingsblad!*  
*Keep you subject adviser information pamphlet!*

## Algemene Vrae:

- Hoe doen ek aansoek? [www.nwu.ac.za/af/aansoeke](http://www.nwu.ac.za/af/aansoeke)
- Hoeveel gaan dit my kos? [www.nwu.ac.za/af/studente/kostes](http://www.nwu.ac.za/af/studente/kostes)
- Kwalifiseer ek vir beurse of lenings? [www.nwu.ac.za/af/voorgraadse-lenings](http://www.nwu.ac.za/af/voorgraadse-lenings)
- Hoe is die studentelewe NWU-PUKKE? <http://ow.ly/XW4P0>
- Waar kan ek bly?
  - Kampuskoshuise: <http://ow.ly/XW5YW>
  - Pukki-verblyf: [www.nwupukkiverblyf.co.za](http://www.nwupukkiverblyf.co.za)

## General Questions:

- How do I apply? [www.nwu.ac.za/applications](http://www.nwu.ac.za/applications)
- How much will it cost me? [www.nwu.ac.za/student/costs](http://www.nwu.ac.za/student/costs)
- Do I qualify for a bursary or a loan? [www.nwu.ac.za/loans-undergraduate-studies](http://www.nwu.ac.za/loans-undergraduate-studies)
- What is the student life like at NWU-PUKKE? <http://ow.ly/XWhvq>
- Where will I live?
  - Campus Hostels: <http://ow.ly/XWhcx>
  - Pukki-verblyf: [www.nwupukkiverblyf.co.za](http://www.nwupukkiverblyf.co.za)

Enige vrae?

*Any questions?*

Dankie dat jy Fakulteit Natuurwetenskappe  
vandag gekies het.  
Ons hoop om jou as deel van die Pukki-familie  
te verwelkom in 2018!

*Thank you for choosing the Faculty of Natural  
Sciences today.*

*We hope to welcome you to the Pukki-family  
in 2018!*

**Fakulteit Natuurwetenskappe**  
*Kwaliteit in Onderrigleer, Navorsing  
en Gemeenskapsbetrokkenheid*

**Faculty of Natural Sciences**  
*Quality in Education, Research  
and Community Engagement*