Stellenbosch UNIVERSITY IYUNIVESITHI UNIVERSITEIT

Science
EyeNzululwazi ngezeNdalo
Natuurwetenskappe

Bachelor of Data Science (BDatSci)

This interdisciplinary degree (4 years) is offered in four faculties, namely Economic and Management Sciences, Science, AgriSciences, and Arts and Social Sciences. The faculty where a student is registered for the focal area will award the degree. The programme provides a thorough foundation in all aspects of the data life cycle, including data gathering, processing, analysis, mining, and visualisation.

Faculty of Science focal areas
- Applied Mathematics
- Statistical Physics
- Computer Science

Faculty of Economic and Management Sciences focal areas
- Analytics and Optimisation
- Behavioural Economics
- Statistical Learning

Faculty of AgriSciences focal area
- Statistical Genetics

Faculty of Arts and Social Sciences focal area
- Geoinformatics

NB: Please consult the Yearbook of each faculty for detailed information on subjects, modules and specific minimum admission requirements.

Do I qualify?

Minimum admission requirements

- A NSC aggregate of **80%** (excluding Life Orientation) and Mathematics **80%** plus one of the following:
- Afrikaans Home Language **60%** OR
- English Home Language **60%** OR
- Afrikaans First Additional Language **75%** OR
- English First Additional Language **75%**

Focal areas explained:

The objective of focal areas is to help you choose a specific career focus within the BDatSci programme. The focal area is not a programme, and certain module combinations are compulsory within each focal area. The module combinations within each focal area fit in with the lecture and assessment timetables, avoiding clashes.

Why study Data Science?

- With a degree in Data Science, graduates can put their skills to use to solve real-world problems in fields as diverse as genetics, logistics, healthcare, e-commerce, finance, government, or retail.
- Data Science graduates receive a solid foundation in key disciplines for the future that are in high demand across a variety of industries, such as Machine Learning and Artificial Intelligence, Data Mining, and Data Analysis.

Why study Data Science at Stellenbosch University?

Did you know?

- The degree is the only of its kind in South Africa.
- The programme offers a diverse student cohort the opportunity to gain knowledge of foundational modules in core disciplines such as statistics, computer science, and mathematics, while being exposed to new technologies and concepts in the field of data science.
- With a solid foundation in data science, students can choose a focal area within a data-rich environment, enabling them to obtain the necessary domain knowledge in their chosen field.

What can I do with a degree in Data Science?

- Application Analyst
- Applications Architect
- Applications Developer
- Business Analyst
- Business Intelligence Developer
- Cyber Security Analyst
- Data Analyst
- Database Administrator
- Data Scientist
- Games Developer
- Machine Learning Engineer
- Quantitative Analyst
- Statistician
- Supply Chain Analyst

Contact details

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Contact our Coordinator: Student and Academic Affairs

at scienceadmin@sun.ac.za

Deadline: Apply with your grade 11 marks by 31 July

General selection and application criteria

www.su.ac.za/ugrequirements

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Science
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Baccalaureus in Datawetenskap (BDatSci)

Hierdie interdissiplinêre graad word in vier fakulteite aangebied, naamlik Ekonomiese en Bestuurswetenskappe, Natuurwetenskappe, AgriWetenskappe, en Lettere en Sosiale Wetenskappe. Die fakulteit waarin 'n student vir hul fokusarea geregistreer is, sal die graad toeken. Die program bied 'n deeglike grondslag in alle aspekte van data se lewensiklus, insluitend die insameling, prosessering, analise, ontginning en visualisering daarvan.

Natuurwetenskappe fokusareas	Ekonomiese en Bestuurswetenskappe fokusareas	AgriWetenskappe fokusareas	Lettere en Sosiale Wetenskappe
• Rekenaarwetenskap • Statistiese Fisika • Toegepaste Wiskunde	• Analitika en Optimering • Gedragsekonomie • Statistiese Leer	• Statistiese Genetika	• Geoinformatika

NB: Raadpleeg die nuutste Jaarboek van die Fakulteit Natuurwetenskappe (Deel 5) vir inligting oor vakke, modules en spesifieke toelatingsvereistes.

Voldoen ek aan die vereistes?

Minimum toelatingsvereistes

- NSS-gemiddeld van **80%** (Lewensoriëntering uitgesluit) en Wiskunde **80%** asook een van die volgende:
- Afrikaans Huistaal **60%** OF
- Engels Huistaal **60%** OF
- Afrikaans Eerste Addisionele Taal **75%** OF
- Engels Eerste Addisionele Taal **75%**

Fokusareas uiteengesit:

Die doel van die fokusareas is om jou te help om 'n spesifieke beroepsfokus binne die BDatSci-program te kies. Elke fokusarea het sekere verpligte modulekombinasies. Die modulekombinasies van elke fokusarea val binne die lesing- en assesseringsroosters wat botsings vermy.

Waarom Datawetenskap studeer?

- Met 'n graad in Datawetenskap kan gegradueerdes hul vaardighede gebruik om probleme in die werklike lewe in diverse velde, so uiteenlopend soos genetika, logistiek, gesondheidsorg, e-handel, finansies, regering, of die kleinhandel, op te los.
- Datawetenskap-gegradueerdes ontvang 'n stewige grondslag in sleuteldissiplines soos masjienleer en kunsmatige intelligensie, data-ontginning, en data-analise wat in die toekoms hoog in aanvraag in verskeie industrieë gaan wees.

Waarom Datawetenskap by die Universiteit Stellenbosch studeer?

- Hierdie graad is enig in sy soort in Suid-Afrika.
- Die program bied 'n diverse studentegroep die geleentheid om kennis van grondliggende modules in kerndissiplines soos statistiek, rekenaarwetenskap en wiskunde te verkry, terwyl hulle aan nuwe tegnologieë en konsepte in die veld van datawetenskap blootgestel word.
- Met 'n stewige grondslag in datawetenskap, kan studente 'n fokusarea binne 'n dataryke omgewing kies
  wat hulle in staat stel om die nodige domeinkennis in hul vakgebied van keuse te verkry.

Wat kan ek doen met 'n graad in Datawetenskap?

Besigheidsanalis
Besigheidsintelligensie-ontwikkelaar
Data-analis
Databasisadministrateur
Datawetenskaplike
Kubersekuriteitsanalis
Kwantitatiewe analis
Masjienleeringenieur
Rekenaarspeletjies-ontwikkelaar
Statistikus
Toepassingsanalis
Toepassingsargitek
Toepassingsontwikkelaar
Voorsieningsketting-analis

Kontak ons

Prof. Paul Mostert
E-pos: datascience@sun.ac.za

Kontak ons Koördineerder: Studente- en Akademiese Sake

by science@sun.ac.za

Sperdatum: Doen aansoek met jou graad 11-punte teen 31 Julie

Algemene toelatings- en keuringskriteria

www.su.ac.za/ugrequirements