

BSc (Geoinformatics)

The BSc (Geoinformatics) programme entails the collection, storage, analysis, visualisation and management of geospatial information by using an assortment of geospatial analytical methods and tools to help with decision making and providing solutions to geographic problems. Our graduates have a passion for geography, an interest in collecting, processing, displaying and analysing geographic information, and deriving, geospatial data products, and an interest in using computing technology and quantitative techniques to address geographical problems.

What makes this programme unique?

The programme is accredited by the South African Geomatics Council for registration as candidate Geomatics Technologists in GISc (GTg, GISc).

What career opportunities exist for graduates?

Web programmer, geospatial data officer, geospatial software developer, mobile app developer, geovisualisation specialist, GIS project manager, GISc consulting, map designer, spatial data analyst, earth observation data analyst and systems analyst.

Which companies employ our graduates?

Graduates with a BSc (Geoinformatics) readily find work at organisations such as:

- The Environmental Systems Research Institute (ESRI) South Africa;
- Intergraph Systems Southern Africa;
- The Council for Scientific and Industrial Research (CSIR);
- The Agricultural Research Council (ARC);
- AfriGIS; GeoTerralmage; GISCOE; Aurecon;
- The South African National Space Agency (SANSA);
- South Africa's national mapping organisation (National Geospatial Information (NGI));
- Any municipality in the country;
- Many government departments (eg Environmental Affairs, Forestry and Fisheries (DEFF); Science and Innovation (DSI); Statistics South Africa; and Agriculture, Land Reform and Rural Development (DALRRD); and Water and Sanitation (DWS).



'I enjoy the BSc (Geoinformatics) degree programme because we are exposed to many different fields in a short time: geography, business, IT, law, mathematics, remote sensing, cartography, geodesy and statistics. This degree programme is challenging, yet extremely interesting. I am never bored! I enjoy statistics and analysis, this combination can be used in GIS. Any job that combines these activities would definitely be my dream job! Most of all I dream of working in Google's spatial department!'

- **Kayla Theron**



'Geoinformatics is a fascinating degree as it allows you to work in a variety of fields from agriculture to transport planning which I enjoy as I have many interests. I enjoyed the visual and programming aspects of the degree as they are very rewarding as you can see a final product at the end. In the future, I aim to be a GIS specialist that can work on projects that can help impact people's lives for the better by creating spatial solutions.'

- **Terisha Pillay**



'I have a passion for solving real-world issues and enjoy working with state-of-the-art technologies. The BSc (Geoinformatics) programme also teaches problem solving, critical thinking, project management and other highly sought-after skills. My dream job is to work for a GIS consultancy. This will allow me to work in many different industries while I continue learning.'

- **Nicholas de Kock**

| Programme | Minimum requirements for NSC and IEB for 2022 | | | |
|--|--|-------------|-------------------|-----|
| | Achievement level | | | APS |
| | English Home Language or English First Additional Language | Mathematics | Physical Sciences | |
| BSc (Geoinformatics) [3 years] Closing dates: SA – 30 September, Non-SA – 31 August | 5 | 5 | 5 | 34 |