

Apply for **BSc (Meteorology)** in the Faculty of Natural and Agricultural Sciences at UP

The BSc (Meteorology) programme focuses on the study of atmospheric processes. An ideal candidate is someone who is fascinated by weather phenomena and is interested in all things concerned with natural science.

What makes this programme unique?

This is the only Meteorology programme offered in South Africa and the SADC region. A student who has successfully completed the BScHons (Meteorology) degree will be regarded as a Class 1 Meteorologist by the World Meteorological Organisation.

The BScHons (Meteorology) degree, which is required to become a professional meteorologist, complies fully with the Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology Volume I – Meteorology.

Which companies employ our graduates?

Meteorologists are employed by institutions involved in the study, interpretation and prediction of weather and climate-related phenomena.

Our graduates are employed at:

- The South African Weather Service (SAWS)
- International Weather Services and companies (for instance in New Zealand, Dubai and Australia)
- The Council for Scientific and Industrial Research (CSIR)
- Universities in South Africa and abroad

Researchers

They research all aspects of the weather and climate to improve man's understanding of atmospheric phenomena. Atmospheric modellers use supercomputers to solve complex flow dynamic equations of the atmosphere. The monitoring of air quality and the modelling of the impact of air pollution on society are two important aspects that need to be addressed. Research on climate change is receiving increasing attention.

Weather forecasters

The weather forecaster must analyse data and predict the weather by using models that are run on supercomputers. Weather forecasts are issued on different time scales, from very short-range forecasting to forecasts that are valid for months ahead, as well as seasonal forecasts.

Private positions for people with this qualification include presenting the weather forecast on television.

What career opportunities exist for graduates?

Climatologists

They manage essential data sets that contain large volumes of information gathered by the SAWS and other organisations.

Consultants

Some meteorologists who work as consultants in the private sector and at universities provide specialised research services.

Lecturers

A few academic positions for meteorologists and climatologists are available at South African universities.

Minimum admission requirements for NSC/IEB

| Programme | Minimum requirements for NSC and IEB for 2023 | | | |
|--|--|-------------|-------------------|-----|
| | Achievement level | | | APS |
| | English Home Language or English First Additional Language | Mathematics | Physical Sciences | |
| BSc (Meteorology) [3 years] Close on availability of space: As soon as the number of places available for this programme are filled, it will be closed for further applications. | 5 | 5 | 5 | 34 |

Minimum admission requirements for qualifications other than the NSC/IEB

For qualifications not indicated in the table below, refer to the conversion table in the brochure: 2023 Undergraduate programme information - Qualifications other than the National Senior Certificate (NSC) and Independent Examination Board (IEB) at www.up.ac.za/programmes > Undergraduate > Admission information

| Programme | Minimum requirements for 2023 | | | | | | | | | |
|-------------------|-------------------------------|---|----------|-------|-------|-----------------|--------------|---|---------------------------------|------|
| | Achievement level | | | | | | | | | |
| | Compulsory subjects | IGCSE/ LGCSE/ BGCSE/ SGCSE/ GCSE/ NSCC OL/ O Level = Gr 11* | AS Level | IB SL | IB HL | HIGCSE/ NSCC HL | KOMBI ABITUR | CGCE UCE/ NECO/ WAEC/ ZIMSEC O Level = Gr 11* | CGCE UACE/ WAEC/ ZIMSEC A Level | KCSE |
| BSc (Meteorology) | English | C | C | 4 | 3 | 3 | 60–69% | C | E | B+ |
| | Mathematics | C | C | 4 | 3 | 3 | 60–69% | C | E | B+ |
| | Physics | C | C | 4 | 3 | 3 | 60–69% | C | E | B+ |
| | Chemistry | C | C | 4 | 3 | 3 | 60–69% | C | E | B+ |

* Only English with at least a C-symbol on this level can be used for final admission. All other subject requirements per faculty must be on A Level and/or AS Level for final admission before registration—refer to subject requirements in the table above.