

University of Pretoria Yearbook 2024

BScHons *Meteorology* (02240074)

Department Geography, Geoinformatics and Meteorology

Minimum duration of study 1 year

Total credits 135

NQF level 08

Admission requirements

1. BSc (Meteorology) degree **or** relevant BSc degree
2. Physics passed at first-year level
3. Mathematics passed at second-year level
4. Passed the following modules (or equivalents thereof):

- a. WKD 155 Atmospheric structure and processes
- b. WKD 261 Physical meteorology
- c. GMA 220 Remote sensing
- d. WKD 263 Introduction to dynamical meteorology
- e. WKD 352 Atmospheric vorticity and divergence
- f. WKD 361 Quasi-geostrophic analysis
- g. WKD 366 Fundamentals of weather forecasting
- h. WTW 114 Calculus*
- i. WTW 124 Calculus*
- j. WTW 218 Calculus*
- k. WTW 248 Vector analysis*
- l. PHY 114 and 124 Physics

1. A weighted average of at least 60% in relevant final-year modules
2. An admission examination may be required

Note: Additional modules may be required in order to reach the desired level of competency

Curriculum: Final year

Minimum credits: 135

Fundamental credits: 10

Core credits: 95

Elective credits : 30

Additional information:

Appropriate honours modules from the other disciplines in the Department or Faculty may be taken on approval by the Honours coordinator or Head of Department.

Fundamental modules

[Research methods 725](#) (WKD 725) - Credits: 10.00

Core modules

[Seasonal and climate modelling 703](#) (WKD 703) - Credits: 15.00

[Numerical modelling: applications 704](#) (WKD 704) - Credits: 15.00

[Radar and mesoscale meteorology 721](#) (WKD 721) - Credits: 15.00

[Climate change 724](#) (WKD 724) - Credits: 15.00

[Research project 763](#) (WKD 763) - Credits: 35.00

Elective modules

[Statistics for biological sciences 780](#) (BME 780) - Credits: 15.00

[Basis in environmental health 772](#) (EHM 772) - Credits: 5.00

[Environmental assessments 785](#) (ENV 785) - Credits: 15.00

[Introduction to environmental and occupational health 775](#) (EOH 775) - Credits: 10.00

[Selected theme 701](#) (GGY 701) - Credits: 15.00

[Geographical and environmental principles 710](#) (GGY 710) - Credits: 15.00

[Applied geomorphology 718](#) (GGY 718) - Credits: 15.00

[Urban geography 780](#) (GGY 780) - Credits: 15.00

[Environmental change 789](#) (GGY 789) - Credits: 15.00

[Advanced geospatial data 705](#) (GIS 705) - Credits: 15.00

[Special topics 707](#) (GIS 707) - Credits: 15.00

[Advanced GIS 708](#) (GIS 708) - Credits: 15.00

[Geospatial data and services 709](#) (GIS 709) - Credits: 15.00

[Advanced remote sensing 705](#) (GMA 705) - Credits: 15.00

[Dynamic meteorology 706](#) (WKD 706) - Credits: 15.00

[Boundary layer meteorology 719](#) (WKD 719) - Credits: 15.00

[Advanced weather forecasting 722](#) (WKD 722) - Credits: 15.00

[Atmospheric composition and air quality 723](#) (WKD 723) - Credits: 15.00

[Cloud dynamics 781](#) (WKD 781) - Credits: 15.00

General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at

the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.