

University of Pretoria Yearbook 2022

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

Core credits: 99

Elective credits: 36

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.

Core modules

Numerical modelling: applications 704 (WKD 704) - Credits: 15.00

Dynamic meteorology 706 (WKD 706) - Credits: 15.00

Radar meteorology 707 (WKD 707) - Credits: 12.00

Overview of tropical and mid-latitude meteorology 731 (WKD 731) - Credits: 12.00

Satellite meteorology 733 (WKD 733) - Credits: 12.00

Research project 763 (WKD 763) - Credits: 35.00

Elective modules

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

Natural woodland and forests: Ecology and management 700 (BOT 700) - Credits: 15.00

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

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

Advanced remote sensing 705 (GMA 705) - Credits: 15.00

Environmental management and risk assessment 716 (GTX 716) - Credits: 20.00

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

Boundary layer meteorology 719 (WKD 719) - Credits: 15.00

Mesoscale meteorology 734 (WKD 734) - Credits: 12.00

Selected themes 736 (WKD 736) - Credits: 12.00

Cloud dynamics 781 (WKD 781) - Credits: 15.00

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