

# University of Pretoria Yearbook 2021

## BScHons Meteorology (02240074)

**Department** Geography, Geoinformatics and Meteorology

**Minimum duration of study** 1 year

**Total credits** 135

**NQF level** 08

## Programme information

### Renewal of registration

- i. Subject to exceptions approved by the Dean, on the recommendation of the relevant head of department, a student may not sit for an examination for the honours degree more than twice in the same module.
- ii. A student for an honours degree must complete his or her study, in the case of full-time students, within two years and, in the case of after-hours students, within three years of first registering for the degree. Under special circumstances, the Dean, on the recommendation of the relevant head of department, may give approval for a limited extension of this period.

In calculating marks, General Regulation G.12.2 applies.

Apart from the prescribed coursework, a research project is an integral part of the study.

## 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

## Pass with distinction

The BScHons degree is awarded with distinction to a candidate who obtains a weighted average of at least 75% in all the prescribed modules and a minimum of 65% in any one module.

## 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: 12.00

Dynamic meteorology 706 (WKD 706) - Credits: 16.00

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: 12.00

Boundary layer meteorology 719 (WKD 719) - Credits: 12.00

Mesoscale meteorology 734 (WKD 734) - Credits: 12.00

Selected themes 736 (WKD 736) - Credits: 12.00

Cloud dynamics 781 (WKD 781) - Credits: 12.00

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.