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# University of Pretoria Yearbook 2019

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## BScHons Meteorology (02240074)

**Minimum duration of study** 1 year

**Total credits** 135

### Programme information

#### Renewal of registration

- i. Subject to exceptions approved by the Dean, on the recommendation of the relevant head of department, and in the case of distance education where the Dean formulates the stipulations that will apply, 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 and, in the case of distance education students, within the period stipulated by the Dean. 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

In addition to the requirements of General Regulations G.1.3 and G.62 an appropriate bachelor's degree is a prerequisite: a candidate with an average of less than 60% in the major subjects in the final year of the bachelor's degree will only be admitted with the approval of the Dean on the recommendation of the head of department. Additional conditions may be prescribed by the head of department.

A BSc in Meteorology degree

#### OR

An appropriate bachelor's degree with second-year mathematics and first-year physics.

- WKD 155 Atmospheric structure and processes
- WKD 164 Climate and weather of Southern Africa
- WKD 261 Physical meteorology
- GMA 220 Remote sensing
- WKD 263 Introduction to dynamical meteorology
- WKD 352 Atmospheric vorticity and divergence
- WKD 361 Quasi-geostrophic analysis



WKD 366 Fundamentals of weather forecasting

WTW 114 Calculus\*

WTW 128 Calculus\* AND WTW 126 Linear algebra\* OR WTW 124

WTW 218 Calculus\*

WTW 248 Vector Analysis \*

PHY 171 First course in physics\* or PHY 114 and PHY 124

(\*or an equivalent qualification as approved by the head of the department.)

## 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.



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## Curriculum: Final year

**Minimum credits: 135**

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Core credits: 99

Elective credits: 36

### **Other programme-specific 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: 15.00

Responsible ecotourism management 714 (TBE 714) - 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

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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.