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