University of Pretoria Yearbook 2021

BScHons Biotechnology (02240393)

Department	Genetics
Minimum duration of study	1 year
Total credits	135
NQF level	08

Programme information

BScHons (Biotechnology) is a unique interdepartmental programme aimed at enabling students to pursue their interest in molecular biotechnology through relevant research areas offered within fields of biochemistry, plant science, microbiology and plant pathology, plant production, as well as genetics. Students within this programme will be registered and will conduct their studies within the department of their choice. A student's choice of research programme will determine which of the respective departments will mentor their honours degree programme.

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. Relevant BSc degree
2. Eukaryotic Gene Control and Development, Macromolecules of Life: Structure-Function and Bioinformatics and Genetic Manipulation of Microbes (or equivalent) passed at final-year level
3. A weighted average of at least 60% at final-year level
4. An admission examination may be required

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: 35
Elective credits: 100

Additional information:

- Students registered in the Division of Biochemistry must take BCM 771, BCM 773 and BCM 774 as electives.
- Students registered in the Division of Genetics must take GTK 702, GTK 703 and GTK 705 as electives.
- Students registered in the Division of Microbiology must take MCP 751, MCP 752 and MCP 754 as electives.
- Students registered in the Department of Plant and Soil Sciences must take BOT 705, BOT 746, BOT 782 and BOT 783 as electives.

Core modules

Biotechnology in the workplace 701 (BTW 701) - Credits: 20.00
Molecular and cellular biology 721 (MLB 721) - Credits: 15.00

Elective modules

Scientific communication 771 (BCM 771) - Credits: 15.00
Research project and report 773 (BCM 773) - Credits: 60.00
Research methods 774 (BCM 774) - Credits: 25.00
Molecular techniques 705 (BOT 705) - Credits: 15.00
Applications in plant biotechnology 746 (BOT 746) - Credits: 10.00
Research report 782 (BOT 782) - Credits: 60.00
Seminar 783 (BOT 783) - Credits: 15.00
Scientific communication 702 (GTK 702) - Credits: 15.00
Research project 703 (GTK 703) - Credits: 60.00
Research methods 705 (GTK 705) - Credits: 25.00
Research methods 751 (MCP 751) - Credits: 25.00
Scientific communication 752 (MCP 752) - Credits: 15.00
Research project and literature study 754 (MCP 754) - Credits: 60.00