

# Universiteit van Pretoria Jaarboek 2017

## BScHons Genetika (02240705)

**Duur van studie** 1 jaar

**Totale krediete** 135

### Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

The honours study programmes serve as the first level of postgraduate training and the aim is therefore to introduce students to the methods of research – from the reading of research papers, through to the conceptualisation, planning, execution and communication of a research project.

*Hierdie inligting is slegs in Engels beskikbaar*

#### Renewal of registration

1. Subject to exceptions approved by the Dean, on the recommendation of the 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.
2. 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 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.

### Toelatingsvereistes

'n Toepaslike BSc-graad met 'n finale graad punt (GPA) van minstens 60% en in ten minste vier genetika modules op derdejaarsvlak of toestemming deur die Hoof van die Departement. Voorkeur sal aan aansoekers met die hoogste finale GPAs vir hul voorafgaande graad gegee word en kwalifiserende aansoekers kan aan 'n ingang evaluerings eksamen onderwerp word. Toegang is verder afhanklik van die beskikbaarheid van studieleiers en / of navorsingsprojekte binne die Departement.

### Ander programspesifieke inligting

- Additional modules may be prescribed by the head of the department where deemed necessary. Honours students may also be required to complete a biometry or equivalent module, if they have not already done so during their undergraduate training.
- Suitably qualified candidates may also apply for the interdepartmental BScHons in Biotechnology (Code 02240392) with a registration in the Department of Genetics. For more information, please refer to the programme information for the BScHons in Biotechnology.



## Eksamens en slaagvereistes

A pass mark is required for all the components of the honours study programme and the final honours mark is calculated proportionally to the credits of the respective prescribed modules.

## Slaag met lof

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.



## Kurrikulum: Finale jaar

Minimum krediete: 135

### Kernmodules

#### Navorsingsmetodes 705 (GTK 705)

**Modulekrediete** 30.00

**Voorvereistes** Geen voorvereistes.

**Kontaktyd** 10 besprekingsklasse per week, 5 webgebaseerde periodes per week, 5 praktiese sessies per week, 5 lesings per week

**Onderrigtaal** Module word in Engels aangebied

**Akademiese organisasie** Genetika

**Aanbiedingstydperk** Jaar

#### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Students are guided through the methodology of research planning and data handling. They are offered hands-on experience in a range of advanced techniques employed in molecular research and analysis. Scientific writing and presentation skills, required for research in genetics, are also addressed.

#### Molekulêre en selbiologie 721 (MLB 721)

**Modulekrediete** 15.00

**Voorvereistes** Geen voorvereistes.

**Kontaktyd** 2 besprekingsklasse per week

**Onderrigtaal** Module word in Engels aangebied

**Akademiese organisasie** Mikrobiologie en Plantpat

**Aanbiedingstydperk** Semester 2

#### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Principles and applications of recombinant DNA, and other novel molecular and genomics technologies, to address questions in the biological sciences and/or biotechnology. Strong emphasis is placed on the principles of research planning, including identifying suitable research objectives, formulating a research strategy and understanding the relevance and feasibility of research. The module is assessed by means of a research project proposal, conceived and formulated by each student. The proposal must focus on the use of molecular technologies in addressing realistic questions in biology and/or biotechnology. There is also an oral defense of the project proposal.

This module is jointly presented in the departments of Biochemistry, Genetics and Microbiology and Plant Pathology.



## Seminaar 702 (GTK 702)

<b>Modulekrediete</b>	15.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	1 seminaar per week, 1 besprekingsklas per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Akademiese organisasie</b>	Genetika
<b>Aanbiedingstydperk</b>	Jaar

### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Students are guided to collect relevant literature from disparate papers and to condense and collate this into a written seminar. Seminars are presented, along with formal article talks. Themes and articles covered in the course form part of the written examination upon completion of the module.

## Navorsingsprojek 703 (GTK 703)

<b>Modulekrediete</b>	60.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Akademiese organisasie</b>	Genetika
<b>Aanbiedingstydperk</b>	Jaar

### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

A mini-dissertation with well-defined limits is undertaken under the guidance of a supervisor. The students are allowed to choose from a number of projects from the different research programmes in the department. The module also has a strong theoretical component since emphasis is placed on writing and presenting a comprehensive literature review and project proposal. Additional technical and analytical training is provided. The project is concluded with a final report, presented in the format of a short manuscript, as well as a poster and an oral presentation.

## Tendense in genetika 704 (GTK 704)

<b>Modulekrediete</b>	15.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	4 besprekingsklasse per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Akademiese organisasie</b>	Genetika
<b>Aanbiedingstydperk</b>	Jaar



## Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Discussions and essays focusing on a selection of advanced topics, as well as recent advances in the field of genetics, with an emphasis on contextualising these developments within the broader framework of the Biosciences and its role in modern society. Ethical and philosophical issues in genetics are debated.

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Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertrouwd met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.