

# Universiteit van Pretoria Jaarboek 2018

## PhD Biotegnologie (02261021)

**Minimum duur van studie** 2 jaar

**Totale krediete** 360

### Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

*This is an interdepartmental programme.*

The curriculum is to be determined by the heads of the participating departments. Please consult with Prof P Bloomer, Tel: 012 420 3259, for further details.

#### Duration of studies

The doctorate is conferred on a student only if one of the following periods has expired:

- i. At least four years after complying with all the requirements for a three-year bachelor's degree.
- ii. At least three years after complying with all the requirements for a four-year bachelor's degree.
- iii. At least two years after complying with all the requirements for a bachelor's degree of five years or more.
- iv. At least two years after complying with all the requirements for a master's degree.
- v. With the exception of a shorter period that may be approved by the Dean, at least 12 months since registration for the doctorate at this University has expired.

The head of department may set specific residential requirements for students who are required to live on campus.

#### Renewal of registration

Subject to other faculty regulations, a student for a doctorate must complete his or her studies within three years after first registering for the degree. Under special circumstances, the Dean, on the recommendation of the head of department or the Postgraduate Committee, may give approval for a limited fixed extension of this period.

#### Curriculum

The curriculum for the PhD degree consists of the following:

- i. Theoretical knowledge of the major subject/s and such additional modules as may be prescribed.
- ii. A thesis.

#### Conversion of a master's to doctoral study

The stipulations of G.41 apply as follows:

##### 1. Requirements

- a. Under special circumstances, the dean of a faculty may convert the registration of a candidate for the master's degree to registration for a doctoral degree.
- b. For such conversions, the head of department and the supervisor must be satisfied that the student's completed work is of the standard that would be expected of a doctoral student, that the student is capable

of completing a doctoral degree, and that the project is of appropriate standard and scope to constitute a doctoral study.

- c. For such conversions, the head of department and the supervisor must be satisfied that the student has demonstrated that he or she has the potential to fulfil the requirements of a doctoral degree without having completed a master's degree.

## 2. Process

- a. Application for conversion may be submitted at any time during the course of study for the master's degree.
- b. The application for the conversion must include the following documentation:
  - i. A detailed progress report by the candidate of the work completed for the master's project. The report must provide proof that the results obtained thus far are of such a standard and scientific significance that they justify conversion to a doctoral project. The report should include details of presentations made at conferences and of material that has been submitted for publication and/or published.
  - ii. A detailed proposal for the intended doctoral project, written by the candidate, including the objectives of the project.
  - iii. A recommendation by the supervisor with specific comments on the ability of the applicant as a potential doctoral candidate as well as the feasibility of the conversion, especially with regard to the information provided by the candidate in his/her reports (items (i) and (ii)).
  - iv. A recommendation by the head of department, if he or she is not the supervisor, in which the ability of the candidate as a potential doctoral candidate is confirmed.
  - v. If the dean considers it advisable for the faculty, the candidate may be required to present a seminar to the department in support of the application. In this case, the head of department should include a report on this in his or her recommendation.
- c. The application of the candidate, together with the reports and recommendations, is submitted for consideration to the dean, (who may delegate to the Chairperson of the Faculty Postgraduate Committee) for approval. The decision should be submitted to the Faculty Board for approval.

## General

Candidates are required to familiarise themselves with the General Regulations regarding the maximum duration of study and the requirements to submit an article/s for publication.

## Toelatingsvereistes

An appropriate MSc degree, with a final grade point average of at least 60%, or on recommendation by the Head of Department, and contingent upon the availability of supervisors and/or research projects within the participating department.

## Eksamens en slaagvereistes

- i. Consult the General Regulations that apply to the calculation of marks.
- ii. In order to obtain the PhD degree the candidate must:
  - pass the examinations and the prescribed modules, as determined in the study programme;
  - pass the thesis; and
  - pass the final examination on the thesis and general subject knowledge.



## Kurrikulum: Jaar 1

### Kernmodules

#### Proefskrif: Agronomie 990 (AGR 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Plant- en Grondwetenskappe
<b>Aanbiedingstydperk</b>	Jaar

##### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

This module involves the development, presentation and approval of a research proposal, the execution of the research project, and the writing up and presenting of the research results. In addition to the thesis, the student is also expected to publish at least one research paper in a peer-reviewed, UP accredited scientific journal. An oral examination covering Pasture Science and other fields related to the thesis will be conducted after the thesis has been accepted by examiners. A candidate needs to pass both the written thesis and oral examination to qualify for the degree.

#### Projek en proefskrif 990 (BCM 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Biochemie
<b>Aanbiedingstydperk</b>	Jaar

#### Proefskrif: Plantkunde 990 (BOT 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Aparte klasse vir Engels en Afrikaans
<b>Departement</b>	Plant- en Grondwetenskappe
<b>Aanbiedingstydperk</b>	Jaar

#### Proefskrif: Genetika 990 (GTK 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Genetika



**Aanbiedingstydperk**

Jaar



## Kurrikulum: Finale jaar

### Kernmodules

#### Proefskrif: Agronomie 990 (AGR 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Plant- en Grondwetenskappe
<b>Aanbiedingstydperk</b>	Jaar

#### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

This module involves the development, presentation and approval of a research proposal, the execution of the research project, and the writing up and presenting of the research results. In addition to the thesis, the student is also expected to publish at least one research paper in a peer-reviewed, UP accredited scientific journal. An oral examination covering Pasture Science and other fields related to the thesis will be conducted after the thesis has been accepted by examiners. A candidate needs to pass both the written thesis and oral examination to qualify for the degree.

#### Projek en proefskrif 990 (BCM 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Biochemie
<b>Aanbiedingstydperk</b>	Jaar

#### Proefskrif: Plantkunde 990 (BOT 990)

<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Aparte klasse vir Engels en Afrikaans
<b>Departement</b>	Plant- en Grondwetenskappe
<b>Aanbiedingstydperk</b>	Jaar

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<b>Modulekrediete</b>	360.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Genetika



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Aanbiedingstydperk	Jaar
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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.