

Department of Forest and Wood Science

Academic Programmes for 2018

Masters Programme

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This document is an extract from the Faculty of AgriSciences Calendar Part 7 for 2018



Postgraduate Programmes

Postgraduate programmes in Forestry and Wood Sciences may be taken after completion of the bachelor's programme. Students can, depending on their existing qualifications, enter a suitable postgraduate programme in one of their majors to obtain one of the following qualifications: Postgraduate Diploma in Forestry and Wood Sciences (PgDipFor), Master of Science in Forestry and Wood Sciences (MScFor), Doctor of Philosophy in Forestry and Wood Sciences (PscFor) in the fields of Forestry and Natural Resource Sciences or Wood and Wood Products Sciences.

Master's Programme in Forestry and Wood Sciences (MScFor)

Forestry and Natural Resource Sciences or Wood and Wood Products Sciences

The master's programme in Forestry and Wood Sciences leads to the qualifications MScFor in Forestry and Natural Resource Sciences **or** Wood and Wood Products Sciences. The programme consists of a one-year MScFor degree after the four-year BScFor degree.

Specific Admission Requirements

- The four year BScFor degree, the postgraduate diploma in Forestry and Wood Sciences, an applicable honours degree, as well as other qualifications that Senate has approved for this purpose.
- A minimum final mark of 60% in all modules or in the major module that is applicable to the postgraduate field of study. The Department can decide to deviate from this requirement.

The MScFor can be awarded to you if you -

- have an applicable bachelor's degree of this University or a bachelor's degree approved for this purpose by Senate, and on written application have been admitted by Senate to the particular programme with a minimum study period of one year, or hold an applicable honours degree of this University or a similar honours degree approved for this purpose by Senate, and on written application have been admitted by Senate to the particular programme with a minimum study period of one year;
- have followed an approved curriculum of advanced study and/or research, which
 may include a period of study or research at some other place recognised by
 Senate;
- have passed the prescribed examination(s);
- have submitted a complete and well-written thesis or assignment which shows that
 you have performed independent scientific and technical investigations and
 interpreted the results satisfactorily; included a statement in the thesis or
 assignment that the thesis or assignment has not been submitted to another
 university in order to obtain a degree and that it is your own work; and



- Have satisfactorily taken an oral examination. In certain instances, supplementary study may be required of you.
- You must also satisfy all other regulations regarding theses or assignments for master's degrees. See Higher Degrees in Part 1 (General) of the University's Calendar.

Programme Description

Duration of Programme

This programme extends over one year after the four year BScFor degree.

Compulsory Modules

Students must choose between Forest Science 878 and Wood Product Science 878 (180 credits)

Additional modules and short courses

The master's programme consists of a 100% research component (180 credits) but you could, in consultation with your supervisor, be requested to follow additional modules or short courses, including a selection of Dryland Forestry short courses and/or Biometry 881/841 (Postgraduate Biometry). The additional coursework is designed to equip the student with additional research tools and knowledge to do independent research in the chosen field of study.

881 (8) Postgraduate biometry

Data processing with SAS Enterprise Guide (or alternatively: R). Simple descriptive statistics; t-tests for single populations, combined t-tests and paired t-tests for two populations; analysis of variance: completely random design, random blocks design, Latin square design, cross-classification designs; repeated-measures analysis of variance; multiple comparison procedures; non-parametric tests: Mann-Whitney, Wilcoxon, Kruskal-Wallis and Friedman; linear regression and correlation; polynomial regression, multiple regression; selection of independent variables with stepwise regression and all-subset regression; analysis of covariance analysis; categorical data analyses (Chi-squared tests); logistic regression. This module is presented in two blocks of five half days each *Method of assessment: Flexible assessment.*

Prerequisite modules:

- Biometry 212 and 242 or 211
- Students with different undergraduate Statistics modules must obtain at least 50% for an admission examination.

Home department: Genetics

841 (8) Biometrical applications and data analysis in R

Data processing and graphical procedures with R. Simple descriptive statistics; t-tests for single populations, independent samples t-tests and paired t-tests for two populations; analysis of variance: completely random design, random-blocks design, Latin-square design, cross-classification designs; repeated-measures analysis of variance; multiple comparison procedures. Power analysis. Non-parametric tests: Mann-Whitney, Wilcoxon, Kruskal-Wallis and Friedman; linear regression and correlation; polynomial regression, multiple regression; selection of independent variables with stepwise regression and all-subset regression; covariance analysis;



categorical data analyses (Chi-squared tests); logistic regression. This module is presented in two blocks of five half days each in the second semester.

Method of assessment: Flexible assessment

Prerequisite modules: Biometry 212 and 242 or 211

Students with different undergraduate Statistics modules must obtain at least

50% for an admission examination

Home department: Genetics

Additional short courses offered for specialisation in Dryland Forestry

- Woodland ecology and silviculture
- Remote sensing and forest mensuration
- Tree improvement and nursery practice
- Biomass harvesting and transport logistics
- Wood processing and anatomy
- Dryland forest economics

The listed short courses are presented in one or two blocks, each consisting of five half days.

Method of assessment: Flexible assessment.

There are no prerequisites for the Dryland Forestry short courses

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Application process:

To apply please identify a study leader and finalise the research project and first proposal.

For a list of possible supervisors, please visit:

http://www.sun.ac.za/english/faculty/agri/forestry/staff/academic-staff

Then apply online at:

http://www0.sun.ac.za/pgstudies/

For more information on the programs offered at the Department of Forest and Wood Science, please visit the following links:

- Yearbook 2018: http://www.sun.ac.za/english/Documents/Yearbooks/Current/AgriSciences.pdf
- Website of department: http://www.sun.ac.za/forestry

