

BComHons (Mathematical Statistics)

Admission requirements

- A bachelor's degree with an average mark of at least 65% for Mathematical Statistics 3.

Selection

The number of students selected can be influenced by, for example, staff capacity, availability of resources within the Department as well as academic merit and University transformation objectives. As staff capacity and resources can fluctuate from year to year, the number of students selected can also differ from year to year. If the Mathematical Statistics background of the applicant is deemed insufficient after a case-by-case determination by the Department of Statistics and Actuarial Science, the Department may require an additional departmental assessment on third-year level Mathematical Statistics topics. Students may also be required to complete additional undergraduate Stellenbosch University Mathematical Statistics modules along with their honours studies.

Application procedure and closing date

Apply at www.sun.ac.za/pgstudies. For South African applicants, the closing date is **31 October** of the year before your intended studies, and for international applicants, it is **30 September**.

Duration, offering type and starting date of programme

Duration: One year, full-time. You must complete the programme within three years. If not, you will have to repeat your modules.

Starting date: One and a half weeks before the other classes at the University begin.

Programme's mode of delivery

Fully contact (face-to-face).

Enquiries

Programme leader: Prof Sugnet Lubbe
Department of Statistics and Actuarial Science
Tel: 021 808 3024
E-mail: slubbe@sun.ac.za
Website: www.sun.ac.za/statistics

Programme content

Programme module

You must earn a total of at least 120 credits for this programme.

Code	Module	Credits	Module Name	Semester
22853	778	120	Mathematical Statistics	Both

Please note:

- Some of the modules listed below may not be offered in a specific year and some modules

may also be offered in different semesters from the ones listed below, depending on circumstances in the Department. Please contact the Department to find out which modules will be available.

- The research assignment is compulsory. You must complete it under supervision and submit it for examination.
- You can ask for permission to take a maximum of 12 credits from suitable postgraduate modules in other programmes.

Compulsory modules (84 credits)

Code	Module	Credits	Module Name	Semester
13074	723	6	Introduction to R Programming	1
10602	715	12	Multivariate Statistical Analysis A	1
10603	745	12	Multivariate Statistical Analysis B	2
11228	791	30	Research Assignment: Mathematical Statistics	Both
65250	718	12	Stochastic Simulation	1
10751	747	12	Time Series Analysis	2

Please note the following prerequisite:

Multivariate Statistical Analysis A 715(12) is a prerequisite for Multivariate Statistical Analysis B 745(12).

Elective modules (at least 36 credits)

Code	Module	Credits	Module Name	Semester
10394	711	12	Bayesian statistics	1
10408	712	12	Biostatistics	1
11922	724	12	Capita Selecta in Mathematical Statistics A	1
11923	754	12	Capita Selecta in Mathematical Statistics B	2
58777	741	12	Data Mining	1
10440	713	12	Experimental Design	1
10705	742	12	Sampling Techniques	1
13360	771	12	Statistical Learning Theory	2
10636	746	12	Survival Analysis	2

Please note following prerequisite:

Data Mining 741(12) is a prerequisite for Statistical Learning Theory 771.