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
10440	713	12	Experimental Design	1
13361	771	12	Mathematical Statistics for Data Science	1
10705	742	12	Sampling Techniques	1
13360	771	12	Statistical Learning Theory	2
10636	746	12	Survival Analysis	2

3.1.10.1   BComHons (Mathematical Statistics): Focus on Data Science

Interdepartmental and interfaculty collaboration

The Department of Statistics and Actuarial Science and the Division for Computer Science in the Faculty of Science jointly present this programme.

Admission requirements

- A bachelor's degree with a combined average mark of at least 65% for the third-year modules in Mathematical Statistics , and a satisfactory mark in Computer Science up to at least second-year level.

This programme is presented jointly by the Department of Statistics and Actuarial Science and the Division for Computer Science of the Department of Mathematical Sciences in the Faculty of Science. Consequently, you must be admitted to postgraduate study by both the Department of Statistics and Actuarial Science and the Division for Computer Science.

Selection

The number of students selected will be influenced by, among other things, staff capacity and the availability of resources within the departments, as well as academic merit and University transformation objectives (within the Division of Computer Science and the Department of Statistics and Actuarial Science). As staff capacity and resources may fluctuate from year to year, the number of students selected can also differ from year to year.

If the Computer Science and Mathematical Statistics background of the applicant is deemed insufficient after a case-by-case determination by the Division of Computer Science and the Department of Statistics and Actuarial Science, the departments may require an additional departmental assessment on third year level Computer Science and Mathematical Statistics topics.

Students may also be required to complete additional undergraduate Stellenbosch University Computer Science and Mathematical Statistics modules along with their honours studies.

Programme structure

You must choose coursework modules from both of the Department of Statistics and Actuarial Science and the Division for Computer Science and complete a research assignment from the Department of Statistics and Actuarial Science.