BComHons (Economics and Mathematical Statistics)

Interdepartmental and interfaculty collaboration

The Department of Statistics and Actuarial Science and the Department of Economics jointly offer this programme.

Admission requirements

- You must be accepted for honours studies in both the Department of Economics and the Department of Statistics and Actuarial Science, with the following requirements for each:
    o Department of Economics: at least 65% average for Economics 3,
    o Department of Statistics and Actuarial Science: at least 65% average for Mathematical Statistics 3;
- Grade 12 Mathematics at least 70%.

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 of programme and starting date

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

Starting date: Early January.

Enquiries

Programme coordinator: Prof Dieter von Fintel
Department of Economics
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Website: www.ekon.sun.ac.za

Programme structure

The coursework component consists of four modules each from Mathematical Statistics and Economics and a further two modules that may come from any of the two departments. The research component is a compulsory assignment consisting of a statistical application in a field of economics. Both departments supervise the assignment.

This programme requires full-time class attendance.

Programme module

You must complete a total of at least 164 credits for this programme.

Code	Module	Credits	Module Name	Semester
56928	779	164	Economics and Mathematical Statistics	Both

You must complete modules to a minimum of 54 credits from Economics and 48 credits from Mathematical Statistics. For a further 20 credits, you must choose two modules from Economics and/or Mathematical Statistics. The assignment counts 42 credits. See the programme outline below.

Please note:

- You must complete the first semester of a year module to be allowed to do the second semester.
- The semester in which the modules are presented may change at short notice from year to year.

Compulsory modules (98 or 110 credits)

Note that you can choose between some modules.

Code	Module	Credits	Module Name	Semester
10430	871	20	Econometrics	1
10595	771	12	Macroeconomics	2
10605	771	12	Microeconomics	1
10602	715	12	Multivariate Statistical Analysis A* *and*	1
10603	745	12	Multivariate Statistical Analysis B* *or*	2
65250	718	12	Stochastic Simulation	1
11217	772	42	Research Assignment: Economics and Mathematical Statistics (statistical application)	Both

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

Elective modules in Economics

- Choose at least 10 credits and at most 40 credits.
- Not all the modules are not necessarily offered every year.
- Note that all the modules marked with an asterisk (*) are normally offered only every second year. You must contact the Department of Economics to find out which modules will be presented in a specific year.

Code	Module	Credits	Module Name	Semester
10742	771	10	Applied Macroeconomics I	Both
10743	772	10	Applied Macroeconomics II	Both
10745	771	10	Applied Microeconomics I	Both
10746	771	10	Applied Microeconomics II	Both
10635	771	10	Development Economics	1
10436	771	10	Economic History	1
10432	771	10	Economics of Education I	2
10434	771	10	Economics of Technological Change*	2

59617	771	10	Environmental Economics*	1
12228	771	10	Financial Economics	2
13469	771	10	Health Economics*	2
11263	771	10	Industrial Organisation	2
64041	771	10	Institutional Economics*	1
10554	771	10	International Finance	1
10555	771	10	International Trade Theory and Policy	1
51861	771	10	Labour Economics*	2
64033	771	10	Monetary Economics	2
11143	771	10	Public Economics	2

Elective modules in Mathematical Statistics

- If you choose compulsory modules 715 and 745 (Multivariate Statistical Analysis A and B) above, you must choose at least 24 credits and at most 48.
- If you choose compulsory module 718 (Stochastic Simulation), you must choose at least 36 credits and at most 60 credits.

Code	Module	Credits	Module Name	Semester
10408	712	12	Biostatistics	1
58777	741	12	Data Mining	1
10636	746	12	Survival Analysis	2
13360	771	12	Statistical Learning Theory	2
10751	747	12	Time Series Analysis	2

Please note:

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