BACHELOR OF SCIENCE HONOURS IN STATISTICAL SCIENCE (3737)

B.276 ADMISSION

Unless Senate decides otherwise and subject to Rule A.2.3, candidates will be required to meet the following criteria to be enrolled for the degree: **Bachelor of Science Honours - BScHons (Statistical Science)**

B.276.1 At least a 60% pass in third year level Mathematics/Statistics with a minimum of 55% per semester or its equivalent at other universities and the approval of the departmental Post-Graduate committee is required for admission into the programme.

B.276.2 If less than 60% was obtained in third year level Mathematics/Statistics the candidate may be required to take an entry examination (test) or re-take one of or more appropriate modules at third year level or both.

B.276.3 In addition to the above admission to an Honours in Statistics requires 2nd year Mathematics.

B.276.4 For admission to the stream in Data Science a student must have passed 3rd year Statistics and 3rd year Computer Science with a minimum of 60%.

B.277 SELECTION

As only a limited number of students can be admitted to the programme, applicants will be subject to a selection procedure.

B.278 DURATION

Unless Senate decides otherwise the duration of the programme shall extend over one year's full-time study and two years part-time study.

B.279 CURRICULUM

Stream 1: General Statistics

Module Name	**Alpha Code**	**Cred**
Compulsory (select all modules)		
Probability and Stochastic Processes 712	COF712	15
Multivariate Analysis 701	STA701	15
Matrix Methods 734	STA734	15
Research Project 761	STA761	30
	Sub-total	**75**
Electives (select 3 modules from the list below - Please check with Department which elective modules will be taught or from Mathematics modules)		
Simulation 710	COF710	15
Financial Risk Management 726	COF726	15
Survey Methods 706	POP706	15
Demographic Analysis 707	POP707	15
Mathematical Demography and Population Modeling 710 (Mathematical background in Differential and Integral Calculus and Demographic Analysis needed)	POP710	15
Theoretical Statistics 705	STA705	15
Experimental Design 710	STA710	15
Biostatistics 733	STA733	15
Statistical Genetics 736	STA736	15
Statistical Modelling 737	STA737	15

Data Mining I 760	STA760	15
Population Projections 790	STA790	15
	Sub-total	**45**
	TOTAL	**120**

Stream 2: Data Science		
Module Name	**Alpha Code**	**Cred**
Compulsory (select all modules)		
Probability and Stochastic Processes 712	COF712	15
Multivariate Analysis 701	STA701	15
Matrix Methods 734	STA734	15
Research Project761	STA761	30
	Sub-total	**75**
Electives (select 3 modules from the list below - Please check with Department which elective modules will be taught or from Mathematics modules)		
Machine Learning 711	COS711*	15
Statistical Modelling 737	STA737	15
Data Mining 760	STA760	15
	Sub-total	**45**
	TOTAL	**120**

**Course offered by the Department of Computer Sciences (pre-requisites third year Computer Science*

B.279.1 A student may take up to an equivalent of two Honours modules, not exceeding 30 credits, from cognate or associate disciplines, provided they have the permission from the Chairpersons of the said department (s) and the Chairperson of the Statistics and Population Studies department.

B.280 ASSESSMENT

Assessment is governed by Rule A.5 as stipulated in the University Calendar: General Information Part 1.

B.281 PROGRESS RULES

B.281.1 Full-time

Unless Senate decides otherwise, a full-time student shall complete the programme in one year. A student who passed at least 60 credits may proceed with his/her studies to complete the programme the following year.

B.281.2 Part-time

Unless Senate decides otherwise, a part time student shall complete the programme in two consecutive years and accumulate at least 60 credits per annum to proceed with his or her studies. A student who accumulated 90 credits within two years may be allowed to proceed to the following year to complete the programme.

B.282 RENEWAL OF REGISTRATION

The renewal of registration will be governed by the Rule A.4, as stipulated in the University Calendar: General Information Part 1.

B.283 SPECIAL REQUIREMENTS FOR THE PROGRAMME

B.283.1 Please note that not all modules will be offered in a specific year and modules may be offered in either semester.