Minor Title	Minor in Statistics
Offered to students admitted to Year 1 in	**2012**

Objectives:
The curriculum of the Statistics minor is structured specifically to cater for the general need of non-statistical disciplines and provide basic training in statistical methodologies and their applications to practical problems. It aims to provide students with a strong and rigorous sense of quantitative reasoning that has become an indispensable skill in nearly all disciplines.

Learning Outcomes:
Students should be able to:

a. acquire basic statistical knowledge alongside their major disciplines, with emphases on correct applications of statistical methods and insightful interpretations of statistical findings;
(by means of coursework, tutorial classes and project-based learning in the curriculum)

b. equip with computational skills essential to conducting complete data analyses;
(by means of coursework, tutorial classes, project-based learning and presentation opportunities in the curriculum)

c. participate proactively in large-scale, multi-disciplinary studies, determine objective findings, and provide guidance on all aspects of data collection and analyses.
(by means of coursework, tutorial classes and project-based learning in the curriculum)

Impermissible Combination:
Major in Risk Management
Major in Statistics
Minor in Risk Management

Required courses (42 credits)

1. Introductory level courses (12 credits)
At least 6 credits selected from the following courses:
STAT1601 Elementary statistical methods (6)
STAT1602 Business statistics (6)
STAT1603 Introductory statistics (6)
STAT2601 Probability and statistics I (6)

Plus at least 6 credits selected from the following courses:
STAT2602 Probability and statistics II (6)
STAT2603 Data management with SAS (6)
STAT2605 Introduction to demographic and socio-economic statistics (6)

2. Advanced level courses (30 credits)
At least 30 credits selected from the following courses:
STAT3601 Linear statistical analysis (6)
STAT3602 Statistical inference (6)
STAT3603 Probability modeling (6)
STAT3604 Design and analysis of experiments (6)
STAT3605 Quality control and management (6)
STAT3606 Business logistics (6)
STAT3607 Statistics in clinical medicine & bio-medical research (6)
STAT3608 Statistical genetics (6)
STAT3611 Computer-aided data analysis (6)
STAT3612 Data mining (6)
STAT3613 Marketing engineering (6)
STAT3614 Business forecasting (6)
STAT3616 Advanced SAS programming (6)
STAT3617 Sample survey methods (6)
STAT3955 Survival analysis (6)
STAT4601 Time-series analysis (6)
STAT4602 Multivariate data analysis (6)

Notes:
1. A course may appear as required course in two or more Science majors/minors. Each course can only be considered to satisfy the requirement of one major or one minor, even if that appears in the curriculum of two

majors/minors. Students have to select another course to replace the course in the second major/minor.

2. Courses at the advanced level are subject to change.

Remarks:
Important! Ultimate responsibility rests with students to ensure that the required pre-requisites and co-requisite of selected courses are fulfilled. Students must take and pass all required courses in the selected primary science major in order to satisfy the degree graduation requirements.