

# APPLIED STATISTICS

## FACULTY OF SCIENCE



SCAN ME

### APPLIED STATISTICS:

Applied Statistics refers to quantitative methods for the collection, analysis and presentation of data to solve real world problems and aid in decision making.

### WHO WOULD BE INTERESTED IN THIS MAJOR?

The field of statistics often attracts those interested in the analysis of patterns in data: developing, understanding, abstracting and packaging analytical methods for general use in other subject areas.

If you enjoy quantitative subjects, have problem-solving skills and would like to apply these skills to subject areas like Biology, Genetics, Marketing, Economics, Finance and Psychology, then a major in Applied Statistics is for you.

### SUGGESTED CO-MAJORS:

Biology, Computer Science, Genetics, Marine Biology, Economics, Physics and Astronomy

### POST GRADUATE STUDY OPTIONS

- BSc (Hons) Statistical Sciences
- MSc (Advanced Analytics)
- MSc (Biostatistics)
- MSc (Data Science)
- MSc (Mathematical Statistics/ Operations Research/ Statistics for Ecology & the Environment) Dissertation only
- PhD (Statistical Sciences/ Statistics for Ecology & the Environment)
- PhD (Statistical Sciences/ Statistics for Ecology & the Environment)

### WHAT COURSES WILL YOU TAKE?

The compulsory courses listed below must be in your selection of courses for a major in Applied Statistics.

### 1ST YEAR LEVEL COURSES

- Mathematics 1
- Introductory Statistics

### 2nd YEAR LEVEL COURSES

- Applied Statistics / Study Design and Data Analysis for Scientists
- Statistical Theory

### 3rd YEAR LEVEL COURSES

- Statistical Inference & Modelling
- Operational Research Techniques/ Applied Multivariate Data Analysis

### CAREER OPPORTUNITIES FOR GRADUATES

One advantage of working in Statistics is that you can combine your interest with almost any other field in science, technology or business. Statisticians are routinely rated as being involved in one of the most desirable professions. Statisticians are employed in many fields, including biology, finance, economics, the engineering industry, medicine, public health, psychology, marketing, government, education and sports.

Statisticians are key players in the Analytics / Data Science environment, using their skills to transform large amounts of data into information to solve real-world problems and enhance decision making.

### MINIMUM ADMISSION AND SUBJECT REQUIREMENTS

FPS of 550 (but admission only guaranteed at FPS above 660)

Mathematics 70% & Physical Science 60%

NBT in Mathematics, AL & QL to be written

