



**African University of Science and Technology [AUST]**  
*Knowledge is Freedom*

## **M.Sc. Applied Statistics**

### **Ride on the wave of AUST's success**

**with a degree that offers you an opportunity to catapult your career in a new direction**

As a pan-African university and a World Bank “Center of Excellence” which draws its faculty from over 140 of the world’s top academic and research institutions, and graduates with an extremely high employability rate, AUST has created a global footprint and now enjoys world-wide recognition as a place which produces high class graduates in Science and Engineering. You now have the opportunity to ride that wave of success by enrolling in one of AUST’s newest degree programs, the new M.Sc. in Applied Statistics.

### **Program structure**

This is an intensive 36-credit program designed to impart skills that will enable graduates to play key middle to upper management roles in the public sector through specially selected courses over a continuous period of twelve calendar months and a limited amount of independent research.

### **The ideal candidate for this program**

While this program is largely designed to target professionals already working in relevant fields, it is also an opportunity for those seeking a career change to move into statistics and data management from selected professional backgrounds, as the coursework covers core areas of knowledge for effective engagement in a range of data management and data analysis issues. Under normal circumstances, ONLY CANDIDATES WITH A MINIMUM OF UPPER SECOND CLASS (2:1) UNDERGRADUATE DEGREE will be considered for admission into AUST Master’s programs.

### **Program cost**

Please note that, while AUST has historically supported all its students with financing from an institutional scholarship program, THIS IS NOT A SPONSORED PROGRAM. So, unless you can secure your own funding or get sponsorship from your employer, **please DO NOT submit an application**, the university will not have resources to fund this program. The cost of this program, for tuition only, is N2 580 000 (for Nigerian students) \$8 000 (for international students). As this will be offered as a non-residential program, that fee does not include accommodation. For international students and

applicants from outside Abuja, who may prefer to be “resident students”, additional fees apply, for board (food) and lodging. For further details on that, please e-mail [dap@aust.edu.ng](mailto:dap@aust.edu.ng) As space is limited, the first 20 applicants who qualify for admission may receive a special discount on the tuition fee.

## Application process

To apply, please complete the form available at this [link](#) and submit online. Should you need more information before applying, please send an e-mail to [dap@aust.edu.ng](mailto:dap@aust.edu.ng) or call +234 907 034 3071 OR +234 907 034 3065.

## Calendar

***Closing date for applications:*** 16<sup>th</sup> November, 2018

***Selection of candidates, including interviews:*** 5-16<sup>th</sup> November, 2018

***Classes start:*** 7<sup>th</sup> January, 2019

***Completion of classes:*** 19<sup>th</sup> December, 2019

***Last date to submit projects:*** 8<sup>th</sup> March, 2020

## Further details of degree structure

### *Program Aims*

The general aim of this course is to equip you with the computational skills to solve real-life problems using data modern computationally-intensive methods to solve problems or support data-driven decision-making and planning. The program will therefore have a professional orientation, emphasizing applications and applicable theory. It is intended to provide "operational" knowledge in the field of data processing and management.

### *Program Structure*

The program will consist of course units ranging in credit value from 2 to 4, with the majority being 3-credit courses, in line with the credit rating for similar courses at many U.S. universities. Completion of a total of 36 credit hours of coursework and a project is required for award of the degree. All courses will be taught and assessed on the basis of any combination of continuous assessment, examinations and practical or lab-based activities. A letter grade will be awarded for each course completed. Courses will be offered over 2 sessions, to cover 18 credits during each session.

1. Matrix Algebra (3 credits)
2. Advanced Probability Theory (3 credits)
3. Computing for Statistical Analysis (2 credits)
4. Introduction to Mathematical Statistics and Generalised Linear Models (4 credits)
5. Sampling Theory and Methods (3 credits)
6. Advanced Regression Analysis (3 credits)
7. Experimental Design and Analysis of Variance (3 credits)
8. Applied Multivariate Analysis (3 credits)
9. Statistical Analysis of Randomized and Observational Studies (4 credits)
10. Applied Data Mining (3 credits)
11. Applied Time Series Analysis and Forecasting (3 credits)
12. Working with Large Databases (2 credits)