

1.1 In order to qualify for the award of Postgraduate Diploma in Applied Statistics such a candidate would be required to register for, and to pass, the Postgraduate Diploma Project in Statistics.

1.2 If any candidate has registered for the Postgraduate Diploma in Applied Statistics, and has passed eight taught units, including each of the four taught core units in that programme with at least grade B, and has passed the Postgraduate Diploma Project in Statistics, the Senate may, on the recommendation of the Department of Statistics and Actuarial Sciences and of the Faculty of Science, allow the candidate to transfer his/her registration to that for Master of Science in Applied Statistics. In such a case the first date of registration would be backdated to the date when the candidate first registered for the Postgraduate Diploma in Applied Statistics.

4. Course Distribution

4.1 CORE UNITS (Each course is ONE (1) unit, unless otherwise stated)

STA 3180 Research Methodology

STA 3101 Multivariate Analysis

STA 3102 Parametric Regression Analysis

STA 3103 Statistical Inference Theory

STA 3104 Design and Analysis of Experiments

STA 3118 Postgraduate Diploma Project in Applied Statistics (2 units)

4.2 ELECTIVE UNITS (Each course is ONE (1) unit, unless otherwise stated)

STA 3100 Probability Theory

STA 3105 Design and Analysis of Sample Surveys

STA 3106 Time Series Analysis

STA 3107 Nonparametric Regression Analysis

STA 3108 Epidemiological Research Methods

STA 3109 Modelling Extremal Events

STA 3110 Demography and Vital Statistics

STA 3111 Stochastic Processes

STA 3112 Financial Time Series and Risk Management

STA 3113 Decision Theory

STA 3114 Survival and Clinical Data Analysis

STA 3115 Statistical Consulting (2 units)

STA 3116 Non-Parametric Methods

4.3 OPTIONAL ADDITIONAL UNIT

STA 3117 Basics of Statistical Inference

For more information, contact
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**JOMO KENYATTA UNIVERSITY OF
AGRICULTURE AND TECHNOLOGY**

Department of Statistics and Actuarial Sciences

Regulations for the Degree of Master of Science in Applied Statistics programme

1. Entry Requirements

1.1 The common regulations for all Masters degrees in the University shall apply.

1.2 The general regulations for all Masters degrees in the Faculty of Science and in the Department of Statistics and Actuarial Sciences shall apply. In particular, M. Sc 4.1 to 4.7, M. Sc.5.1 to 5.8, M. Sc. 6.1 to M. Sc 6.9, of the faculty regulations, shall apply for all examinations, and submission of project and thesis, and M. Sc 7.1 to 7.3, of these regulations shall apply for award of the degree.

1.3 The following shall be eligible for admission to the degree of Master of Science in Applied Statistics.

1.3.1A holder of a Bachelors degree with at least Upper Second Class Honours, having studied Statistics as a single subject or as a major of two subjects studied at the degree level at JKUAT or any other University recognized by the Senate.

1.3.2 A holder of a quantitative degree, not necessarily in Statistics, with at least Upper Second Class Honours, from JKUAT or any other University recognized by the Senate, but with work experience in Statistics. However, if an applicant's background in Statistics or Mathematics is insufficient, satisfactory auditing of some units taught in the undergraduate programme may be required during the first year of study, as directed by the Chairman of the Department.

1.3.3 Under exceptional circumstances a holder of a Bachelors degree with Lower Second Class Honours or its equivalent may be eligible for registration provided that the candidate can produce evidence of proven research ability in an appropriate branch of Statistics.

1.4 In addition to meeting one of the requirements under 1.3 above, all students who are admitted to the course will be expected to be proficient in at least one high level computer programming language and at least one statistical software such as Splus, SAS, SPSS, Matlab, Minitab or Genstat.

2 Duration and Pattern of the Programme

1.3 The programme for Master of Science in Applied Statistics comprises sixteen units, which include a Statistics Project.

2.1.1 The duration of study for the degree of Master of Science in Applied Statistics shall be at least two(2) academic years (18 months) and at most four (4) academic years (36 months) from the time of registration.

2.1.2 In order to qualify for the award of the degree of Master of Science in Applied Statistics every candidate must register for and pass sixteen (16) required units, which shall include the Masters Statistics Project.

2.1.3 During the first year of study, a full – time candidate must take at least eight (8) units offered that year, which must include the four (4) core coursework units.

During the second year of study a full – time candidate shall take all the outstanding required units including the Master's Statistics Project.

3 Transfer of Registration

3.3 If a candidate, who has already passed all the eight core units and two additional units for the first year of study for the degree of Master of Science in Statistics, wishes to transfer his/her registration to that of Master of Science in Statistics, the Senate may, on the recommendation of the Department of Statistics and Actuarial Sciences and of the Faculty of Science, allow the candidate to transfer his/her registration to that for Master of Science in Statistics. In such a case the first date of registration would be backdated to the date when the candidate first registered for the degree of Master of Science in Applied Statistics.

3.4 If, for some good cause, a candidate, who has already passed all eight required coursework units for the first year of study for the degree of Master of Science in Applied Statistics, is unable to proceed to the second year of the programme or is unable to complete the second year of the programme, the Senate may, on the recommendation of the Department of Statistics and Actuarial Sciences and of the Faculty of Science, allow the candidate to transfer his/her registration to that for Postgraduate

Diploma in Applied Statistics. In such a case the first date of registration would be backdated to the date when the candidate first registered for the degree of Master of Science in Statistics or of Master of Science in Applied Statistics.