

HOW TO APPLY

The course is advertised through the press. The application forms are then obtainable from JKUAT, upon payment of a non-refundable fee of Ksh. 1,500 for Kenyan citizens and Kshs. 1,950 for Non-citizens.

TUITION FEES

For Kenyan citizens, tuition fees is Kshs 125,700.00 for the first semester of the first year, and reduces depending on the number of units offered in the other semesters. For non citizens, add an extra 20% to the amount in every semester.

ACCOMODATION

Accommodation may not be available and students are expected to make their own arrangements. The office of the Dean of Students may recommend suitable hostels for accommodation.

ENTRY REQUIREMENTS

Must have passed KCSE at a minimum average grade of C+ and at least C+ in English. In addition, the candidate must have passed Mathematics at KCSE with a minimum grade of C+ or credit in Bridging Mathematics.

OR

1.1 Have a minimum of 2 principle passes in Science subjects, one of which should be Mathematics, in General Certificate of Education (CGE) Advanced Level/ Kenya Advanced Certificate of Education (KACE).

OR

1.2 Have a Diploma in Mathematics or Statistics and with at least a credit pass from an Institution recognized by the University Senate,

OR

1.3 Have a Diploma in Applied Sciences, in which there has been a substantial mathematical content, with at least a credit pass in relevant subjects from an Institution recognized by the University Senate.

OR

1.4 Have a Higher National Diploma in Mathematics or Statistics from an institution recognized by the University Senate,

OR

1.5 Have any other qualifications accepted by the University senateas equivalent to 1.1 to 1.3 above. Students who hold any of the qualifications 1.2, 1.3 and 1.4 above may at the discretion of the School of Mathematical Sciences be admitted directly to the second year of the course in which case they may complete their course in a minimum of three academic years and maximum of five academic years.

Students who hold any of the qualification 1.5 above may at the discretion of the School of Mathematics and Physical Sciences be admitted directly to the third year of the course in which case they may complete their course in a minimum of two academic years and maximum of four academic years. However, applicants should note that these are MINIMUM requirements and do NOT guarantee any applicant automatic admission to the degree program.

For more information, Contact:

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JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

Setting Trends in Higher Education, Research and Innovation

BACHELOR OF SCIENCE IN STATISTICS

Department of Statistics and Actuarial Sciences



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INTRODUCTION

Statistics is a branch of science that ideally presents the art of learning from any type of data. The discipline is concerned with the collection, analysis, interpretation of data as well as the effective communication and presentation of results deduced from the data.



COURSE OBJECTIVE

A graduate statistics student is expected to be able to develop and apply mathematical or statistical theories and methods to collect, organize, interpret and summarize numerical data so as to provide usable information.

EMPLOYMENT AVENUES

The students are expected to find employment in:-

- ◆ Financial Sector
- ◆ Healthcare Sector
- ◆ Advertisement Sector
- ◆ Insurance and Brokerage Firms.
- ◆ Research, Advisory and Consultancy firms.
- ◆ Governmental and Non-governmental Institutions.
- ◆ Software development companies.
- ◆ Education Sector.

COURSE DURATION

The program takes a total of 9 semesters with 2 semesters per academic year. Each student is required to undertake a mandatory research project and practical attachment for a period of not less than 8 weeks at the end of the 8th semester. One may undertake any additional unit in their 2nd, 3rd and 4th year of study which does not count towards the classification of the degree but will appear on the transcript. One unit takes a series of 35 one lecture hours where a 3 hour practical period and a 2 hour tutorial period being equivalent to a 3 hour lecture.

COURSE OUTLINE

First Year

First Semester University Unit HRD 2101

Communication Skills

Faculty Unit SMA2104

Mathematics for Science

Core Units

SMA 2100	Discrete Mathematics
STA 2101	Algebra for Statistics and Finance
STA 2102	Information Technology for Statistics
STA 2103	Business Economics I
STA 2104	Calculus for Statistics
STA 2141	Accounts and Finance for Statistics

Second Semester University Units

HRD2102	Development studies and Social Ethics
SZL 2111	HIV/AIDS

Core Units

STA 2100	Probability & Statistics I
STA2105	Calculus for Statistics II
STA 2106	Business Economics II
STA 2107	Database Management
STA 2110	Fundamentals of Vital Statistics
STA 2140	Exploratory Data Analysis

First Semester

Core Units

SMA 2201	Linear Algebra I
STA 2200	Probability and Statistics II
STA 2202	Computer Interactive Statistics
STA 2204	Calculus for Statistics III
STA 2206	Ordinary Differential Equations for Statistics
STA 2210	Fundamentals of Epidemiological Methods
STA 2293	Demographic Techniques

Second Semester

Core Units

STA 2201	Probability & Statistics III
STA 2203	Time Series Analysis I
STA 2305	Statistical Programming
STA 2207	Partial Differential Equations for Statistics
STA 2208	Design and Analysis of Experiments I
STA 2209	Operations Research for Statistics
STA 2240	Fundamentals of Object Oriented Programming

Third Year

First Semester

Core Units

STA 2306	Linear Algebra II
STA 2321	Numerical Analysis
STA 2300	Theory of Estimation
STA 2302	Probability and Statistics IV
STA 2303	Design and Analysis of Sample Surveys
STA 2306	Real Analysis for Statistics
STA 2312	Regression Modelling I

Second Semester

Core Units

STA 2301	Tests of Hypotheses
STA 2305	Stochastic Processes
STA 2307	Statistical Quality Control Methods
STA 2308	Bayesian Inference I
SMA 2403	Measure and Integration
STA 2313	Research Methodology for Statistics
STA 2333	Categorical Data Analysis

Fourth Year

First Semester

University Unit

HRD 2401	Entrepreneurship Skills
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Core Units

STA 2404	Non-Parametric Methods
STA 2405	Measure & Probability
STA 2408	Regression Modelling II
STA 2411	Design & Analysis of Experiments II
STA 2417	Bayesian Inference II
STA 2440	Econometrics
STA 2449	Project in Statistics

Second Semester

Core Units

STA 2402	Generalized Linear Mixed Models
STA 2407	Multivariate Methods
STA 2412	Time Series Analysis II
STA 2414	Survival Data Analysis
STA 2416	Statistical Computing
STA 2420	Financial Time Series
STA 2449	Project in Statistics

Third Semester

STA 2410	Industrial Attachment
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