

Introduction

The department of Statistics and Actuarial Science welcomes you to a conducive and inspiring learning environment. The Department is one of eight departments in the School of Pure and Applied Sciences at Kenyatta University. Established in 2013, the Department has been at the apex of capacity development in Statistics and Actuarial in Kenya. The graduates of Statistics, Programming and Actuarial Science from the department are employed in many industries and in learning institutions, both inside and outside Kenya. Others work with research institutions as well as being self-employed.

The Department offers courses leading to three areas of specialization; Statistics, Social Statistics and Biostatistics. In addition, the Department offers service courses for other Departments in the university.

Our Vision

The vision of the Department is to be a center of excellence in providing competitive, quality education and training in statistics for the benefit of national and international Statistics needs.

Our Mission

The mission of the Department is to teach and advance the state of the art knowledge in Statistics.

Objectives

The objectives of the Department are to:

1. Provide opportunities for students to develop competence in Statistics.
2. Offer statistical services to engineering, business, economics and social science departments.
3. Prepare students to pursue postgraduate studies and careers in teaching, government and industry.
4. Provide the students with a course of study directed towards an understanding of statistical theory and its relation to other fields of study.

5. Provide opportunities for teaching staff to offer seminars and research findings.
6. Establish linkage with industries to promote effective application of Statistics in industrial processes.
7. To equip students with computational skills

Programmes and duration

The Department offers courses at both undergraduates and postgraduates levels.

Undergraduate Programmes

Besides servicing other departments in different Schools, the Department has two undergraduate programs

- i. Bachelor of Science (Statistics and Programming)
- ii. Bachelor of Science (Actuarial Science)

Students taking Bachelor of Education with Statistics as one of their subjects can specialize in Statistics by taking the following core units in Statistics: SST 101, 204, 205, 305, 306, 307, 308, 407, 411, 412, 414, 415.

1. BSc (Actuarial Science)

A total of 52 units are required for one to have a BSc (Actuarial Science). The mode of study is regular for this programme

Units offered

SAC 100, 101, 102, 201, 202, 203, 204, 300, 301, 302, 304, 305, 306, 307, 308, 309, 400, 401, 402, 404, 405, 406, 407 and 408,
SST 101, 102, 103, 201, 202, 203, 204, 205, 304, 305, 306, 307, 308, 407
EET 100, 101, ASC 100 and SCS 209

2. BSc (Statistics and Programming)

A total of 52 units are required for one to have a BSc (Statistics and Programming) at a regular mode of study.

Units offered

SST 100, 102, 103, 200, 201, 202, 203, 204, 205, 300, 301, 302, 303, 304, 305, 306, 308, 400, 401, 402, 404, 405, 406, 407, 408, 409, 411, 412, 413, 414, 415, EET 100, 101, ASC 100 and SCS 209

Mode of Delivery

The Undergraduate Programmes fall under one of the following modes:

- Full-Time
- Distance (Open) learning
- IBP (for teachers and instructors – during school holidays)
- Part-time and Evening classes (City Campus)

Career Prospects of the programme

Banks and Insurance companies require people with strong mathematical background. Several of Statistics graduates have been absorbed by banks as Management Trainee and by Insurance companies as Actuarial trainees. There is still a great demand for Statistics teachers in tertiary institutions, research institutions & industries.

Specific Entry Requirements

All students admitted to the university are eligible to study Statistics at undergraduate level provided they meet the minimum requirements for the Department. To take Statistics in the Bachelors degree, a student must have attained at least a grade B- in Mathematics in the KCSE Examination. To be admitted to the BSc. (Statistics & Programming) a student must have a B in Mathematics and C+ in English.

To be admitted to BSc (Actuarial Science) a student must have a B (plain) in Mathematics and B- (minus) in English.

To be admitted for an MSc course in Statistics, a student must have attained at least an upper second-class at Bachelor's degree or equivalent from a university recognized by the Senate. Students with a lower second-class degree with at least two years relevant experience may be admitted for the MSc course. In addition a student must have done and passed all the core units in the area he/she intends to study.