



SAMUEL ADEGBOYEGE UNIVERSITY
OGWA, EDO STATE
COLLEGE OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS AND PHYSICAL SCIENCES

Course Code: STA 121

Course Title: INTRODUCTION TO STATISTICS

Status: 1 Credits Units (Core)

Semester: Second

Time: Thursday 09:00 am – 10:00 am

Location: Physics Laboratory

Lecturer: Popoola, Felix A. **Tel:** 08060148600

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Office Location: Office 18, Department of Mathematics and Physical Sciences,
College of Basic and Applied Sciences

Office Hours: Tuesday 1:00 - 3:00 pm; Thursday 12:00 – 2:00pm

A. INTRODUCTION:

This course introduces the basics for understanding the concepts and techniques of statistics. The study of statistics has become an important tool for empirical research in almost all professions. Hence, this course is a foundational course for all college students in almost all disciplines.

B. COURSE OBJECTIVES

At the end of the course, the students should have understood the following:

1. The concepts of statistics and the associated terminologies
2. Organization and presentation of data in tables, charts and graphs.
3. The concepts numerical descriptive measures.
4. Solving simple problems using statistical techniques.

C. COURSE CONTENT

Definition of statistics, types of statistics, basic terms, types of variables, sources of data, and methods of data collection. Raw data, organizing and graphing qualitative and quantitative data, histograms, cumulative frequency distributions. Approximations: decimal places; significant figures; and percentage error. Construction of cumulative frequency table and Ogive. Measures of central tendency for ungrouped and grouped data (Mean, median and mode). Measures of dispersion for ungrouped data (range, variance and standard deviation). Measure of position: quartiles, interquartile range, percentiles and percentile rank, dispersion, skewedness and kurtosis. Rates ration and index numbers.

D. COURSE OUTLINE

Week	Topics
1 – 2	Definition, types, sources and methods of data collection
3 – 4	Organizing and presentation of data
5	Error and approximation

6	Cumulative frequency distribution
7	Measures of central tendency for ungrouped and grouped data
8 – 9	Measures of dispersion for ungrouped and grouped data
10 – 11	Measure of position
12	Rates ration and index numbers
13	Revision

E. COURSE DELIVERY METHODOLOGY:

Face to face Lecture method.

F. METHOD OF GRADING

Attendance –	5%
Un-announced quizzes -	5%
Mid-Semester Test -	10%
Assignment –	10%
Examinations -	70%
Total	100%

Assignment: Weekly assignments will be given to students. The date for submission will be announced.

Course Requirements: A student must have nothing less than 75% attendance at lectures to be qualified to write the semester examination.

G. GROUND RULES AND REGULATIONS

1. University guidelines on attendance requirements will be strictly observed in this course. Thus, attendance as well as participation is a prerequisite and count for 10% of students' overall grade.
2. No student will be allowed into the lecture hall 5 minutes after the lecture must have commenced.
3. Improper and indecent dressing will not be allowed in the lecture hall.
4. Students are expected to be well disciplined and they should exhibit this through their punctuality at lectures and prompt attendance to class assignments.

H. ALIGNMENT WITH SAU VISION/MISSION/CORE VALUES/GOALS

Samuel Adegboyega University has the vision of becoming a world class university. For this to happen, Department of Mathematics and Physical Sciences must be the flagship.

I. RECOMMENDED TEXTS:

Prem S. Mann (2010). *Introductory Statistics (7th ed.)*. United States: John Wiley & Sons, Inc.