DAYSTAR UNIVERSITY

BACHELOR OF SCIENCE
IN
MATHEMATICS

RE-SUBMITTED TO

COMMISSION OF HIGHER EDUCATION

JANUARY 2012

This Degree Programme Was
approved by the Commission for
Higher Education on:

2 2 MAR 2012

Authorized Signature

CHAPTER 2: MATHEMATICS MAJOR

1. PHILOSOPHY

Our mathematics major is designed to encourage students to think clearly and to express mathematical concepts in meaningful statements,give students necessary skills to perform operations in professional fields that require the use of mathematics, and also to create the desire, curiosity and interest to further their education in mathematics. Daystar University, in line with its vision and mission, proposes to offer a major in mathematics with four concentrations, namely, **Financial Mathematics, Statistics, Applied Mathematics and Pure mathematics**. These will meet the needs and aspirations of society in which the trained students will serve and lead.

2. RATIONALE

Mathematics is one of the most basic and fundamental courses in science. It forms the foundation for many fields of study and is one of the basic subjects for carrying out research. We are strongly convinced that with the design of this programme, we will produce graduates who will perform with excellence in all professions that require mathematicalskills. Such areas include: banking, insurance, biometrics/biostatistics, quality control, research, pure science and engineering, and business management, among others.

In addition, the major in mathematics will provide the basis for a teaching subject in mathematics and thus expand DaystarUniversity's programme in Education.

3. LEARNING OUTCOMES

A graduate of the B.Sc Mathematics willbe able to:-

1.   communicate mathematical concepts and conclusions,

2.   develop mathematical models of real world situations to help develop solutions to practical problems,

3.   assemble relevant information for mathematical arguments and proofs,

4.   applya wide range of mathematical tools and techniques, including modern computer software applications in solving everyday problems,

5.   apply mathematical concepts and skills to research and innovation.

4. ADMISSION REQUIREMENTS FOR THE PROGRAMME

Applicants must meet the general admission requirements that apply to all DaystarUniversity students as stated in the University catalogue.