

MUNI UNIVERSITY

BACHELOR OF SCIENCE

1.0. Introduction

The Bachelor of Science programme (B.Sc.) is fully accredited by National Council for Higher Education (NCHE). The programme will be run in the Faculty of Science. The program offers Science subject combinations in Mathematics, Physics, Chemistry, and Biology. Specifically; Physics/Mathematics, Chemistry/Mathematics, Biology/Chemistry with specialization in one of the subjects in the final (third) year of the programme.

2.0. Programme Rationale

Research and innovation remain key drivers for national development, even more now with transition into knowledge-based economies and societies. The Bachelor of Science program will equip the students with a well-rounded and rigorous background across the core scientific disciplines of biology, chemistry, physics and mathematics. The students will gain an in-depth understanding of established scientific hypotheses, theories, and laws while participating in the process through faculty-led and supervised research and innovation projects. The B.Sc. programme therefore is designed to train highly motivated scientists who are equipped with specialized research and innovation competencies to solve emerging community problems.

3.0. Graduate prospects

B.Sc. graduates can find jobs in various sectors such as Educational Institutions, Healthcare sector, Pharmaceuticals and Biotechnology Industry, Chemical Industry, Research firms, Testing Laboratories, Wastewater Plants, Oil and gas Industry, Non-Governmental Organizations, etc. Typical jobs include; Research Scientist, Statistician/Data analyst, Quality Controller, Environmental scientist, Biologist, Chemist, Physicist. Further, Further, graduates of Bachelor of Science programme have opportunity of progressing with graduate education at Masters and Doctoral levels.

4.0. Programme Objectives

By the end of the program, the research scientist-trainee should be able to:

- i) Undertake cutting edge scientific research to solve community problems.
- ii) Undertake high-quality undergraduate research projects that further develop their proficiency in research.
- iii) Write grant winning research proposals to fund projects in the scientific fields.
- iv) Successfully implement and manage research projects.
- v) Undertake monitoring and evaluation of the projects.
- vi) Develop collaborative skills required to undertake interdisciplinary research.
- vii) Develop problem-solving skills through research so as to give an early appreciation of the role of research in improving the community well-being.
- viii) Effectively communicate scientific results to the local community and policy makers for decision making purposes.

5.0. Programme Duration

The programme duration is three (3) academic years, comprising of six (6) semesters.

6.0. Target Group

The programme targets the following categories of students:

- ix) Holders of Uganda Advanced Certificate of Education (UACE)
- x) Holders of Diploma qualification (in a relevant discipline)
- xi) Holders of Higher Education Certificate (HEC), and
- xii) Mature-age entrants

7.0. Minimum Admission Requirements

a) Direct Entry (UACE)

Eligible applicants must have obtained at least two (2) principal passes at UACE, and five (5) passes at UCE obtained at the same sitting.

Essential: Two (2) best done of Physics, Mathematics, Biology, and Chemistry

Relevant: Third best done of Mathematics, Physics, Chemistry, Biology, Economics and Agriculture.

Others: General Paper, Sub-Maths, or Computer Studies

b) Diploma Entry

A candidate shall be admitted for a Bachelor of Economics programme if she/he has at least a Second-Class or Credit Diploma in science-based subjects with a bias in Physics, Mathematics, Biology, and Chemistry from a recognized institution from a recognized institution.

c) Higher Education Access Certificate

Applicants with a credit in Higher Education Access Certificate with a bias in Physics, Mathematics, Biology, and Chemistry from a recognized institution shall be considered for admission.

d) Mature Age scheme

Eligible candidates:

- i) Must NOT be less than 25 years of age by the time of submitting the application.
- ii) Must pass the University Mature Age Entry Examinations.