



Career Prospects for Faculty of Science Graduates

The teaching profession is a fountain of human resource worldwide due to the ability of professionals to quickly adapt and transform into a variety of fields. DUCE Science graduates readily find employment in:

- The Ministry of Education and Vocational Training as professional Science teachers for government and private schools.
- Research Institutions – both national and international.

FACULTY OF SCIENCE Science and Technology for Development



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**DAR ES SALAAM UNIVERSITY
COLLEGE OF EDUCATION**

A Constituent College of the University of Dar es Salaam

Welcome Faculty of Science

The Faculty of Science (FoS) is a thriving centre for professional Science teachers education in Tanzania and the Region. The Faculty comprises of Chemistry Department, Biological Sciences Department, Physics, Mathematics and Informatics Department. The Faculty offers courses leading to award of Bachelor of Science with Education [B.Sc. (Ed.)] degree.

Students admitted into B.Sc. (Ed.) programme at DUCE required to select one major Science subject combination from the following:

- Biology and Chemistry
- Biology and Geography
- Mathematics and Chemistry
- Mathematics and Geography
- Mathematics and Information Science
- Physics and Chemistry
- Physics and Mathematics

Objectives of the B.Sc. (Ed.) Programme

The overall objectives of the programme is that, over the three years, a student should develop sufficient mastery of the subject matter and competence in two teaching subjects as well as in pedagogy.

The yearly objectives are:

- By the end of the first year, students are expected to have acquired basic skills of pedagogy and intermediate level of knowledge in their respective teaching subjects to enable them to participate effectively in the first Teaching Practice
- By the end of the second semester, students should have acquired sufficient teaching skills and basic theories in education as well as more advanced knowledge and exposure in their respective teaching subjects.
- By the end of the third year, students will be effective A' level Secondary School Science and Mathematics teachers.

FoS courses are taught by the well qualified and experienced academic staff.

General Programme Regulations

- All students admitted to the Faculty of Science major in two subjects starting from their first year of study.
- In addition to core courses required for major subjects, a student may choose, as an elective, any course which s/he meets the prerequisites/co-requisite requirements and which is compatible with the teaching time table.
- At the end of the academic year, a student, in consultation with his/her Academic Advisor, map out the courses for the following year.
- Courses mapped are subject to approval by the Head of the Department in which the student is intending to major and by the Dean of the Faculty. The Dean's approval constitutes formal enrolment for all the courses listed in the programme. For the first year students, mapping of the courses is done during the orientation week.

Regulations Governing the Award of the B.Sc. (Ed.) Degree

The Faculty of Science operates in the Semester system of studies. Each of its discipline offers a variety of courses, including core courses, which are compulsory as well as those optional courses. Each course is given a credit weighing according to the time devoted to it on the time table.

Fifteen one-hour lectures and fifteen-two hour to three hour practical classes constitute four credits. Thus, for example, a course consisting of 30 one-hour lectures and 15 three-hour practical classes is an 8 credits course.

Seminars and discussion groups are not counted in the weighing unless they make up more than a third of the total teaching hours of the course. Each student requires to register for courses totaling to 120 credits (minimum) and 144 credits (maximum) per academic year. A minimum of 388 credits need to be passed for the award of the Bsc.(Ed) degree in the three years programme and the maximum load should be 432 credits. Passing a course shall mean scoring a C grade or higher.

