BLY 429 Research Project 6 Units

Department of Biological Sciences

Covenant University
1. BLY429
1.1. BLY 429 Research Project 6 Units

Prerequisite: Good Academic standing as judged by Dept.

A short research project involving an investigation on a selected biological problem. The project is to be written up in the form of a scientific report or paper. Oral and paper dissertation are to be presented.

PROGRAMME 2: Biochemistry and Molecular Biology

DEGREE AND DURATION: B.Sc Biochemistry and Molecular Biology - 4 years

(8? semesters)

Vision

To be a leading, world-class academic programme committed to raising a new generation of leaders in the field of Biochemistry and Molecular Biology.

Mission

?? To provide a theoretical, research-based and comprehensive educational experience in Biochemistry and Molecular Biology.

?? To produce graduates in Biochemistry and Molecular Biology who will provide adequate and competent manpower for the nation.

?? To train students in Biochemistry and Molecular Biology using practical, interdisciplinary approach capable of meeting the needs of society especially in the area of improved crops and animal varieties, development of new drugs and industrial products, improved food preservation, waste conversion, etc.

?? To produce world-class Biochemists and Molecular Biologists equipped to lead the biological and biotechnological revolution that will transform the nations agriculture, medicine, industry and environment and thereby eradicate hunger and poverty, combat diseases and conserve the environment.

Philosophy

Biochemistry and Molecular Biology involves teaching and research at macromolecular, molecular,
and atomic levels with a view to understanding the fundamental processes of life. The Biochemistry and Molecular Biology B.Sc. Degree Programme is offered through a collaboration of the Departments in the School of Natural and Applied Sciences consisting of Chemistry, Physics, Mathematics and Biological Sciences. The Programme constitutes an integrated curriculum of basic instruction in biology, chemistry, mathematics, physics, computer science and general courses. Our distinguished faculty are engaged in frontline research in modern, well-equipped laboratories and the Programme hosts a very active training series in Molecular Biology by national and international scholars. The Programme features close faculty-student interaction, small tutorial classes, stimulating learning environments, and opportunities for independent research and study. The Programme meets the Benchmark Minimum Academic Standard (BMAS) prescribed by the National Universities Commission (NUC, 2007) and the Guidelines set by the Nigerian Society for Biochemistry and Molecular Biology (NSBMB). Graduates are prepared for exciting and challenging technical, scientific and research positions in industry, particularly the biomedical, pharmaceutical and agricultural sciences, and for advanced study and research in biochemistry, molecular biology, or health sciences.

OBJECTIVES

The main aims and objectives of the Degree Programme in Biochemistry include the following:

i. to provide students with a broad and balanced foundation of biochemical and molecular biology knowledge and hands-on practical skills.

ii. to develop in students the ability to apply knowledge and skills to solving theoretical and practical problems in biochemistry.

iii. to develop in students, a range of transferable skills that are of value in biochemical and non-biochemical employment.

iv. to provide students with a knowledge and skills base from which they can proceed to further studies in specialized areas of biochemistry or multi-disciplinary areas involving biochemistry.

v. to provide, through training and orientation, an appreciation of the rewards of inter- and multi-disciplinary approach to the solution of complex life problems.
vi. to generate in students an appreciation of the importance of biochemistry in industrial, economic, environmental, technological and social development.

vii. to instill in students an enthusiasm for biochemistry, an appreciation of its application in different contexts and to involve them in an intellectually stimulating and satisfying experience of learning and studying.

viii to prepare students for careers in the health professions, biotechnology, food and pharmaceutical industries, academia, research and government.

ADMISSION REQUIREMENTS

The entry requirements are possession of at least credit level passes in five (5) subjects including English Language, Mathematics, Biology, Chemistry and Physics at the Senior Secondary School Certificate (SSCE), General Certificate of Education (GCE), National Examination Council (NECO) at ordinary level (OLevel) or its equivalent obtained at not more than two sittings. In addition, an acceptable pass in the Unified Tertiary Matriculation Examination (UTME) of the Joint Admission and Matriculation Board (JAMB) and other admission requirements prescribed by Covenant University are required.

GRADUATION REQUIREMENTS

Students are required to register and pass a minimum of 168 units which must include all Compulsory courses, University general courses, National Universities Commission (NUC) courses and SIWES to be eligible for graduation and the award of B. Sc. degree in Biochemistry and Molecular Biology.

COURSE SUMMARY

COURSE STRUCTURE

COURSE DESCRIPTION

100 LEVEL COURSES