

PROPOSED CURRICULUM FOR THE

BACHELOR OF SCIENCE

IN

ENVIRONMENTAL HEALTH

(BSc. ENH)

RE-SUBMITTED TO:

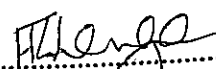
COMMISSION FOR HIGHER

EDUCATION

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approved by the Commission for
Higher Education on:

22 MAR 2012


Authorized Signature

MAJOR IN ENVIRONMENTAL HEALTH

2.1 INTRODUCTION

The goal of the Department of Science and Engineering in implementing a Bachelor of Science in Environmental Health is to provide a strong Christian foundation in the Environmental Health programme for students who have completed their secondary school education, and who aspire to become experts in environmental health management locally and internationally.

The Environmental Health major is a rigorous, science based, applied curriculum that prepares students for careers in environmental health fields. Students who successfully complete the programme of study receive the Bachelor of Science in Environmental Health degree. Graduates will be prepared to serve as Christian servant leaders as Environmental Health Specialists, Occupational Health Specialists, Health and Safety Officers, Environmental Consultants and Educators among others. The degree can also be used as a step to an advanced degree in many fields including environmental health, industrial hygiene, toxicology, epidemiology, ecology and environmental engineering, and will satisfy entrance requirements for professional degree programmes such as medicine, veterinary medicine, dentistry, optometry and pharmacy.

2.2 RATIONALE

The rapid growth of population in developing countries has been accompanied by enormous environmental degradation. Some of the degrading activities have resulted to poor living and health standards. Consequently diseases that affect Man, animals and plants have been on the increase in these countries. Therefore a need arises to have an in depth understanding of the relationship of people to their environment, in order to protect and enhance their health. Most of the environmental problems and their health effects have been aggravated by lack of adequate well-trained personnel to combat them. Therefore people should be empowered to participate actively, individually or collectively to improve the quality of the environment. This calls for specialized training of personnel in Environmental Health.

Environmental Health is an interdisciplinary course of study incorporating Biology, Chemistry, Public Health, Christian Religion & Ethics and Engineering, with an emphasis on the effect of the environment on human health and its control. The programme includes both theoretical as well as practical aspects related to the assessment and control of environmental factors that could potentially be dangerous to the health of the current and future generations.

The curriculum in Environmental Health is designed to educate professionals by providing graduates with the appropriate knowledge and values necessary for identification, assessment, prevention, and control of environmental factors potentially harmful to human health, quality of life and to the stability and sustainability of ecosystems. In addition, graduates will obtain the necessary skills to plan, implement, update and enforce related programmes.

2.3 GOALS

The overall goal of the programme is to train Christian servant leaders to be environmental health professionals who will competently work in liaison with other relevant professionals to enhance the quality of the environment and ultimately human life.

2.4 PROGRAMME LEARNING OUTCOMES

Upon completion of the course, graduates will have acquired knowledge, skills and attitudes to:

1. plan, implement, manage and evaluate environmental health activities and programmes;
2. evaluate policies relating to environmental health;
3. conduct research in environmental health issues;
4. carry out environmental and sanitary inspections and control measures;
5. analyze training needs of environmental health professionals.

2.5 ADMISSION REQUIREMENTS

All candidates admitted to the Bachelor of Science degree in Environmental Health at Daystar University must have the following requirements:

1. Satisfy common requirements for entry into the university.
2. In addition, candidates must obtain a minimum of a C+ (Plus) in Biology and Chemistry and at least a C (Plain) in Mathematics. Those holding equivalent qualifications from recognized institutions may also be considered for admission.
3. Candidates with Diploma in Environmental Health Sciences from the Kenya Medical Training College or other recognized institutions will be eligible for admission if they achieve distinction or credit pass.

2.6 ASSESSMENT OF STUDENT'S PERFORMANCE

The University common regulations for undergraduate examinations and faculty specific regulations shall apply. The continuous assessment shall be based on written assignments, field work, laboratory exercises and written tests. The end of semester examinations and continuous assessment shall usually comprise of 60% and 40% respectively, although this may vary for some courses as defined in the course syllabus.

2.7 DURATION AND REQUIREMENTS FOR GRADUATION

The Bachelor of Science in Environmental Health shall typically extend over a period of four academic years, unless Senate on recommendation of the School Board approves exemption.

The University's common regulations for undergraduate examinations shall apply for all the examinations leading to the award of the degree. The candidates will be expected to do a minimum of 160 credit-hours, divided as follows: 115 credits required in Environmental Health, 20 credits from related science fields and 25 credits from General Education. A credit hour is defined as one contact hour per week for sixteen weeks in a semester. Undergraduate programs must be completed within a period of seven (7) years total elapsed time.

COURSE SYLLABI

The following tables show the schedule of courses to be offered in the four-year programme in the Bachelor of Science in Environmental Health curriculum. The Course Codes for ALL Environmental Health Courses has been changed to ENH. The first digit of the code denotes the years of study when the course is to be offered; example ENH 101 is a first year Environmental Health course.