





RANKS NO. 1

A

in World Leading (4*) Research Impact in Biological Sciences in RAE 2020

TOP 3 in Overall 4* Research in Biological Sciences in RAE 2020



Environmental Sciences

HKIQEP Accredited Programme

BSc (Hons) in APPLIED BIOLOGY

Opportunities to build a better world

Research with Professors Scholarships Exchange Programmes Internship Programmes Study Abroad

UNIVERSITY OF

HKBU-University of Lincoln Double Degree Programme





Biotechnology

biol.hkbu.edu.hk



BSc (Hons) in **APPLIED BIOLOGY**



Background

The Department of Biology at HKBU offers a four-year undergraduate degree programme for BSc (Hons) in Applied Biology. The programme provides students with comprehensive training in biological sciences with specialties in biotechnology and environmental sciences. The courses are designed to assist students in understanding the theories of biology and to provide training in technical skills for research and applications.

Undergraduate Degree Programme

The Applied Biology programme provides professional training in two concentrations of biology:

(i) Biotechnology Concentration

Students in this concentration will develop an understanding of the theories of biology as well as biotechnology applications by taking courses in the fields of cellular/ molecular/ developmental biology, genetics, molecular biotechnology, and other biological fields. In addition, a wide spectrum of laboratory courses designed for training students in technical skills for biological and biomedical research and biotechnology industry are provided.

(ii) Environmental Science Concentration

Students in this concentration will develop understanding of the theories of biology as well as environmental science by taking courses focusing in the fields of biodiversity, ecology, environmental impact assessment and waste management, biological resources management and other environmental management skills. Practical training will provide our students with the ability for addressing current and topical environmental and human healthrelated issues and challenges.

COURSES of Four-Year Undergraduate Degree Programme

Major Courses



Biotechnology Concentration

- Biological Chemistry
- Cell Biology
- Genetics
- Microbiology
- **Animal Physiology**
- Immunology ✦
- Molecular Biology
- Plant Physiology
- Animal and Plant Biotechnology
- Applied Biology Project I
- + Biotechnology Studies Lab I & II
- Developmental Biology
- + Fermentation and Enzyme Technology

Environmental Science Concentration

- ✤ Biodiversity
- **Biological Chemistry**
- Cell Biology
- Natural Resources and Environment
- Microbiology
- + Urban Water Resources Management
- ✤ Ecology
- + Environmental Health and Toxicology
- Waste Treatment and Recycling
- Applied Biology Project I
- ✤ Environmental Biotechnology
- + Environmental Science Lab I & II
- + Principles of Environmental Management

Major Electives Courses

Introduction to Genome Biology, Environmental Biotechnology, Neurobiology, Marine Biology, Chemical Analysis, Chemical Analysis Laboratory, Soil Science and Fertility, Introduction to Agricultural Science and Food Systems, Applied Biology Project II, Environmental Analysis, Sustainable Urban Environment

Admission Requirement

(1) JUPAS Admission (JS2510 Bachelor of Science)

Candidates will be admitted on a Faculty basis with broad-based education from all scientific fields in Year 1. Candidates must fulfil the following HKDSE requirements for admission to the Faculty of Science.

Level 3 in:

Chinese Language **English Language**

Level 2 in: Mathematics Liberal Studies

- Any two Elective Subjects
- (preferably good results in science-
- related subjects)

Criteria for Applied Biology as Major Programme Assignment

Candidates who have attained a 5* or above in relevant science subjects will be guaranteed for admission; or I. A minimum cGPA of 2.4 attained by the end of Year 1; and II. A grade of C or above in BIOL1005 Introduction to Biology

(2) Non JUPUS Admission

- · Local applicants;
- · Mainland Applicants; or
- · International qualifications

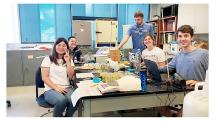
Please visit http://admissions.hkbu.edu.hk/en/ for more admission details.

Career Prospects





Exchange Programmes, Internship Programmes, Summer Research Programme, Study Tours and Scholarships



Eckerd College Summer Research Exchange Programme, Florida, USA



Internship in Agriculture, Fisheries and Conservation Department, Government of HKSAR



Taipei Waste Management Facilities Study Tour



Undergraduate Summer Research Programme



Okinawa, Japan Excursion



The Hong Kong Jockey Club Scholarship

HKIQEP Accredited Programme

The BSc (Hons) in Applied Biology (Environmental Science Concentration) has been accredited by the Hong Kong Institute of Qualified Environmental Professionals Limited (HKIQEP) under the HKIQEP Accreditation Scheme for Environmental Degree Programmes – Undergraduate Level, in FIVE areas which include two Fundamental Areas (Environmental Science and Environmental Management) and three Specific Areas (Water, Waste, and Environment Impact Assessment and Health Impact Assessment) of the HKIQEP Syllabus.

Graduates from our Environmental Science Concentration are provided with a shorter route to becoming a professional member of HKIQEP, a pathway for Qualified Environmental Professionals. This qualification is recognized by the Environment Bureau and Development Bureau, and 45 reputed companies in Hong Kong.

HKBU-University of Lincoln (UoL)

Double Degree Programme in Bachelor of Science (Hons) in Applied Biology (HKBU) and Bachelor of Science (Hons) in Ecology and Conservation (UoL)

Earn 2 degrees in 4 years with the same tuition fee.

This programme is jointly offered by HKBU (Department of Biology) and the University of Lincoln (School of Life Sciences), UK. In this "3+1" curriculum, students will study the first three years at HKBU to gain fundamental and advanced knowledge and skills in environmental science and management to address current and topical environmental and human health-related issues and problems, and study Year 4 at UoL in its Ecology and Conservation programme. This will provide students with a firm grounding in the principles of ecology and conservation to address challenges pertaining to the conservation of biodiversity.

Programme Enquiries

General Office Department of Biology RRS815, 8/F, Sir Run Run Shaw Building Ho Sin Hang Campus, Hong Kong Baptist University, Kowloon Tong Tel : (+852) 3411 7050 Fax : (+852) 3411 5995 E-mail : biol@hkbu.edu.hk

Admissions Enquiries

Admissions Section Academic Registry AAB701, 7/F, Academic and Administration Building Baptist University Road Campus Hong Kong Baptist University, Kowloon Tong Tel : (+852) 3411 2200 Fax : (+852) 3411 7373 E-mail : 334jupas@hkbu.edu.hk

The Department also offers opportunities for postgraduate study at MSc, MPhil and PhD level for graduates interested in further study. For more details, please refer to our website: biol.hkbu.edu.hk