

The integration of agricultural science with
bioresource from the perspective of
sustainability

The only agriculture-related degree
programme in Hong Kong

BSc (Hons) in

Bioresource & Agricultural Science

(JS2510 BACHELOR OF SCIENCE)



Preserve biodiversity

Bioresource conservation

Agriculture research and innovation hub

Modern agricultural science and practice



Website

BSc (Hons) in Bioresource and Agricultural Science



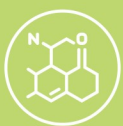
This internationally competitive programme offered by the Department of Biology since 2019 is the first professional, multidisciplinary programme in Hong Kong that focuses on the integration of agricultural science with bioresource from the perspective of sustainability.

The aims of the programme is to nurture students into becoming leaders of the bioresource and agricultural science field to address environmental problems and challenges both locally and globally such as the overexploitation of bioresources, effects of climate change and the coronavirus pandemic on food security, and impacts of food systems on bioresources, by providing scientific and intensive training on agrotechnology and bioresource management practices.

Local and Regional Initiatives:

- Redevelopment of agriculture in Hong Kong
 - The New Agriculture Policy
 - Hong Kong 2030+
- Rapid agricultural development of the Bay Area and “One-Belt-One-Road” cities

Special Features



MULTIDISCIPLINARY PROGRAMME

First multidisciplinary undergraduate programme in Hong Kong covering agriculture, landscaping, and environmental, social and economic sustainability.



INTERSHIPS

Internship experience in the industry for ALL students.



EXPERIENTIAL LEARNING

Basic farm training at Agriculture, Fisheries and Conservation Department (AFCD) Experimental Station and hands-on learning at on-campus agricultural research and innovation hub.



LOCAL / OVERSEAS TRAINING

Local/overseas technical and practical training, e.g. Hong Kong Organic Resource Centre (HKORC).

Professional Courses for Four-Year Undergraduate Degree Programme

Total (minimum) units required for graduation - 129 units

Major Courses

YEAR 2

- Introduction to Agricultural Science and Food Systems
- Natural Resources and Environment
- Biodiversity
- Biodiversity Laboratory
- Genetics and Evolution
- Summer Internship

YEAR 3

- Ecology
- Ecology Laboratory
- Urban Water Resources Management
- Soil Science and Fertility
- Soil Science and Fertility Laboratory
- Crop Production and Management
- Research Methods in Biological Sciences

YEAR 4

- Plant Diseases, Pests, and Weed Management
- Urban Horticulture
- Bioresource and Agricultural Science Laboratory
- Farm Management for Urban Environment
- Agribusiness: Marketing and Entrepreneurship
- Organic Certification and Inspector Training
- Bioresource and Agricultural Science Project I

Major Electives

- Plant Physiology
- Principles of Environmental Management
- Environmental Biotechnology
- Sustainable Urban Environment
- Bioresource and Agricultural Science Project II
- Microbiology
- Rural and Agricultural Development in China



Experiential Learning through Internships



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
Any two Elective Subjects (preferably good results in science related subjects)
- Level 2 in:** Mathematics
- Attained in:** Citizenship and Social Development

(2) Non JUPAS Admission

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

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

Criteria for Bioresource and Agricultural Science 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 2.2 attained by the end of Year 1; and
II.A grade of C or above in BIOL1005 Introduction to Biology

LEARNING OUTCOMES

Students will receive professional training to become leading scientists in bioresource and agricultural science.

- This programme will provide you with essential knowledge and a solid foundation on the study of bioresources and agriculture;
- You will learn to appreciate how sustainability could contribute to nature and humanity and understand the science of sustainable agriculture and bioresource management;
- You will develop the ability to utilise research methodologies, field skills and statistical tools to identify and critically analyse agriculture, bioresource and conservation issues in the local, regional and international contexts;
- You will develop a heightened sensitivity to conflicts and challenges in current issues concerning the interfaces of agriculture practices, nature conservation, urban development and bioresource management; and
- You will be able to contribute to the sustainable development of the agricultural industry.



CAREER PROSPECTS

The Bachelor of Science (Hons) in Bioresource and Agricultural Science will provide graduates with the knowledge and practical skills required for a wide array of bioresource, agriculture, and environmental-related professions.

- Agribusiness (agricultural produce e.g. crops, agrochemicals, animal feeds, and equipment and services)
- Businesses (production, processing, distribution and retailing in the food sector)
- Professionals in agrotechnology
- Research and development (crop and soil science, environmental science, food science, animal science)
- Environmental consultancy
- Government (e.g. Agriculture, Fisheries and Conservation Department, Environmental Protection Department)
- Non-governmental organisations
- Green groups



Programme Enquiries

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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

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