



香港中文大學
The Chinese University of Hong Kong

Biology Programme

School of Life Sciences
Science Faculty
CUHK



Pursuit of Excellence

BIOLOGY PROGRAM

<http://www.sls.cuhk.edu.hk/index.php/biol>



Our Missions

1. To provide our students with the core knowledge in biological sciences
2. To prepare our students with great competence in understanding biological issues and appreciation of biological knowledge, with awareness in biological conservation and other environmental issues
3. To develop students' generic skills in scientific thinking and communication, problem solving and IT

4 year Curriculum and Training

(for applicants taking HKDSE)

Broadening your Scope in Science

Biological Sciences, Chemistry & Mathematics/Physics/Statistics

Expanding your Knowledge and Understanding of the Unity of Life

Biochemistry, Cell Biology, Genetics & Ecology

Exploring the Diversity of Life

Vertebrates, Invertebrates, Plants & Microorganisms

Specializing in your Area of Interest to fit your Career Plan

Selection from >30 Major Elective Lecture / Laboratory Courses

Examples of Elective Lecture Courses		
Animal Physiology	Marine Biology	Genetic Engineering
Plant Physiology	Hong Kong Flora & Vegetation	Molecular Biology
Development Biology	Environmental Pollution & Toxicology	Environmental Biotechnology
Human Genetics	Conservation Biology	Plant Biotechnology
Human Biology	Statistical Techniques in Life Sciences	Microbial Biotechnology
Evolutionary Biology	Aspects of Neuroscience	Proteomics
Bioenergetics & Metabolism	Molecular Endocrinology	Food Microbiology
Basic & Applied Immunology	Genomics and Transcriptomics	Metabolomics

Capstone courses

Experimental Research / Literature Research in Biology / Internship / Field Study

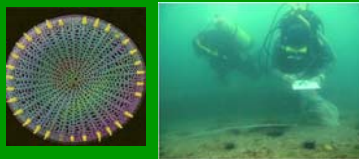
Study Packages

BIOLOGY

Human Biology



Organismic Biology



Biology for Teaching Career



Human Biology

BIOL3310 Human Biology*
 BIOL4310 Human Genetics*
 BIOL4120 Developmental Biology
 BCHE4040 Aspects of Neuroscience
 BCHE4060 Basic and Applied Immunology
 BCHE4090 Biochemistry for Sport and Exercise
 CMBI4101 Cancer Cell Biology
 CMBI4102 Stem Cell Biology
 FNCS3010 Nutrition and Human Development
 FNCS5130 Human Physiology

Organismic Biology

BIOL3710 Marine Biology*
 BIOL4010 Evolutionary Biology*
 BIOL4012 Field and Environmental Biology
 BIOL4510 Hong Kong Flora and Vegetation
 BIOL3530 Plant Physiology
 BIOL3630 Animal Physiology
 BIOL4032 Physiological Investigations
 ENSC4260 or BIOL4260 Conservation Biology

Biology for Teaching Career

BIOL3530 Plant Physiology*
 BIOL3630 Animal Physiology*
 BIOL4010 Evolutionary Biology
 BIOL3710 Marine Biology
 BIOL3310 Human Biology or FNCS5130 Human Physiology
 BIOL4032 Physiological Investigations
 BIOL4120 Developmental Biology
 BIOL4210 or ENSC4210 Environmental Pollution and Toxicology
 BCHE3050 Molecular Biology or MBTE4320 Genetic Engineering

Biology students learn how to examine **Organisms**

Fish dissection



Studying microscopic features of plants



Measuring muscle contraction



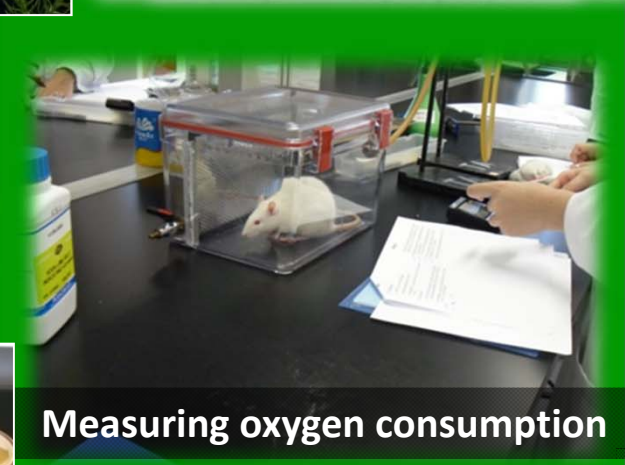
Examining the developmental origins of fruits



Observing reptile specimens



Measuring oxygen consumption



Biology students learn how to conduct **Field Studies**

Studying Stream Ecology



Our students fully
learn how to work
as a team!



Studying Woodland Ecology



Deploying transect at Rocky Shore



Sampling from the oceanic area



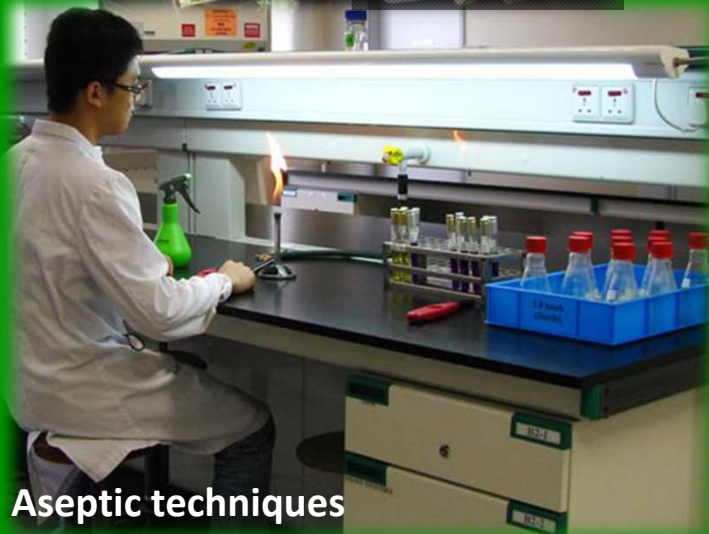
Biology students learn how to
apply Microbial & Molecular
techniques



Gene cloning



Techniques in molecular biology



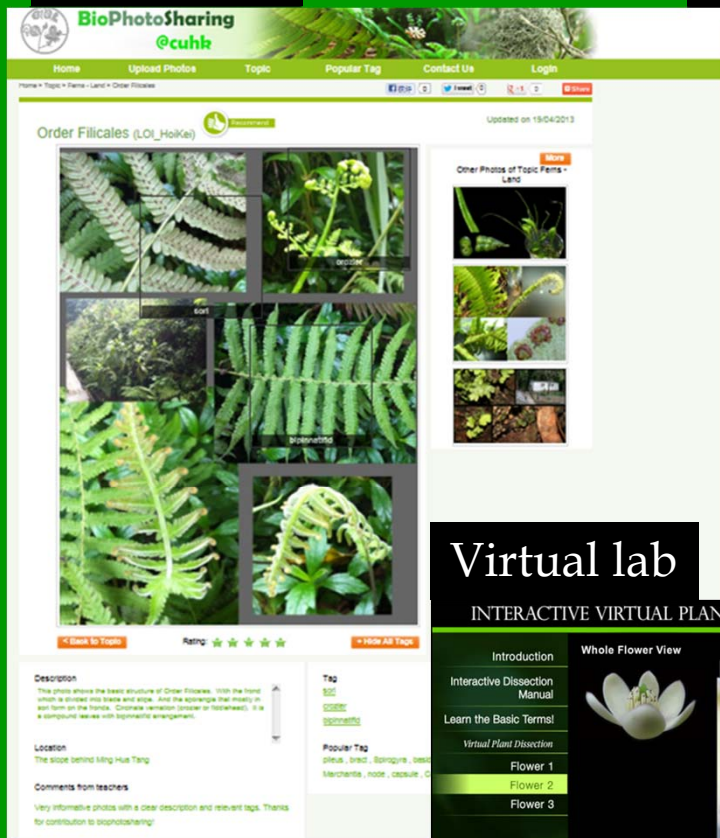
Aseptic techniques



Staining

Biology students learn OUTSIDE THE CLASSROOMS

Photobank



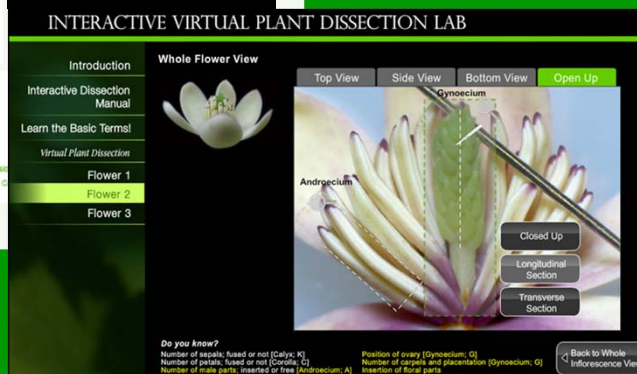
Online videos



Mobile App



Virtual lab



Self-learning through Online Courseware for Biology students

Biology students learn OUTSIDE THE CLASSROOMS



Internship at HK Wetland Park



Internship at Beijing
The botany lab inside Beijing natural museum, internee help sorting plants



Internship at Taiwan
A year 3 intern enjoying diving in Green Island of Taiwan, going to help retrieve underwater tiles

Internship

Overseas Internship (DREAM) 2011-2014	
Host Organization	Internship Country
Oxford Univeristy	USA
Biodiversity Research Center, Academia Sinica	Taiwan
University of California at Davis	USA
University of Regensburg	Germany
Academia Sinica	Taiwan



Internship at USA
Working in a research lab of the University of Oklahoma as a lab helper to clone genes.



Biology students learn OUTSIDE THE CLASSROOMS



Taiwan Field trip

FYP students practising diving in HK



HK Field trip

A group of FYP students enjoying field trip on Tung Ping Chau, northeast of HK



HK Field study

Investigating the Feeding Ecology of Yellow-crested Cockatoo (*Cacatua sulphurea*) in Hong Kong

Final Year Project (FYP)¹⁰

Biology students learn OUTSIDE THE CLASSROOMS

Overseas Exchange 2012-15	
Host University	Host Country
The University of Adelaide	Australia
Queen's University	Canada
University of Calgary	Canada
University of Ottawa	Canada
Nanjing University	China
University of Helsinki	Finland
Leibniz Universitat Hannover	Germany
Freie Universitat Berlin	Germany
International Christian University	Japan
Waseda University	Japan
Nagoya University of Commerce & Business	Japan
Universidad de Monterrey	Mexico
Tilburg University	Netherlands
University of Groningen	Netherlands
Stellenbosch University	South Africa
Karistad University (Sci Prog)	Sweden
Taiwan University (Science Programme)	Taiwan
Aston University	United Kingdom
University of Illinois at Urbana-Champaign	USA
University of Massachusetts Amherst	USA



Waseda University
(Japan, 2014)



University of Calgary
Canada, 2014)

Exchange 11

Good Teacher-Student Relationship

BBQ gathering of students and academic advisors



Field visit with teachers



Graduate demonstrators and students



Dinner Gathering

Celebration of Chinese New Year by students and teachers together during a hot-pot dinner

Splendid campus life!

Biology Football Team



勁過飯



We are
BIO!

送舊晚會



Biology Society



O'day

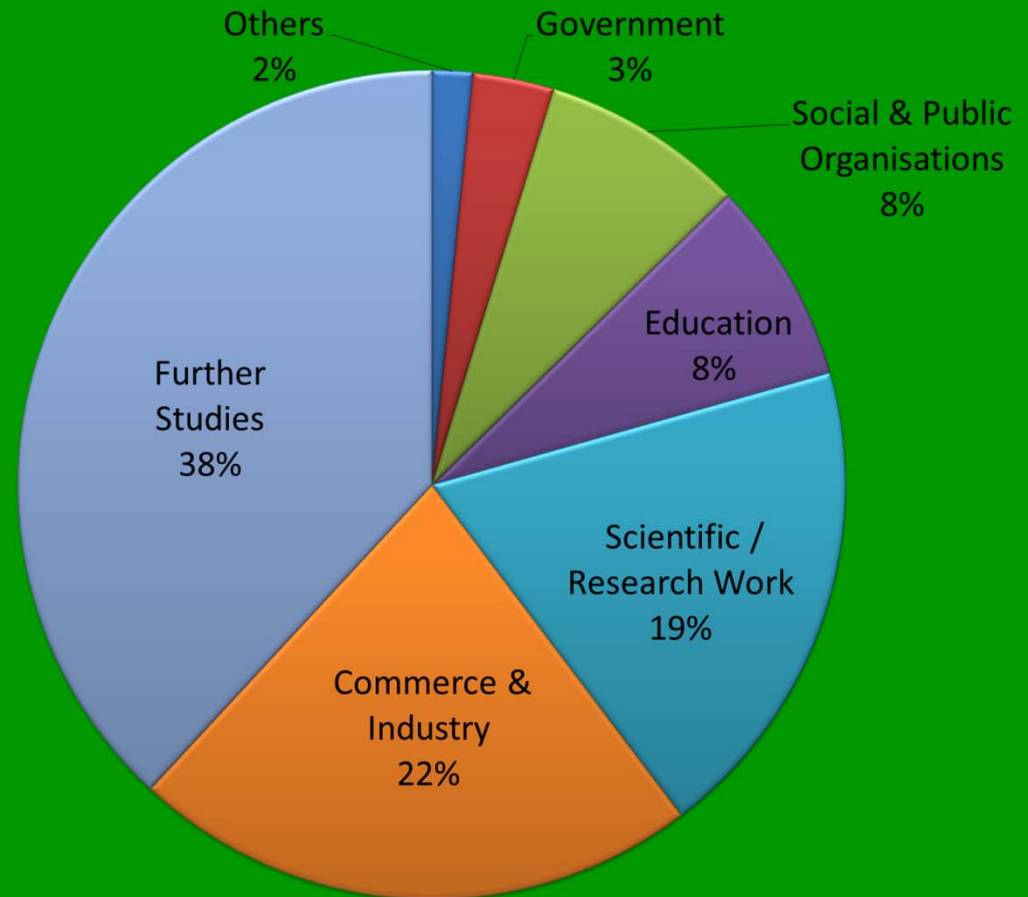


Winter Camp 冬營



Career Prospect

“The broad spectrum of courses is important for my career. When I worked as a researcher, strong fundamental knowledge allows me to tackle research problems in different angles. Now, I am working as assistant curator in museum. Broad knowledge on different field of Biology is even indispensable for me to prepare exhibitions.”
(Dr. Pang - Assistant Curator of Hong Kong Science Museum; graduated in 1999)



Employment survey of Biology graduates
(2012-14)

Thank You!!

For more information, please visit our webpage:

<http://www.sls.cuhk.edu.hk/index.php/biol>

