



The Chinese University of Hong Kong

Environmental Science Programme School of Life Sciences Faculty of Science



BACKGROUND

Environmental Science is an integrated science using the basic knowledge and skills of applied biochemistry, biology and chemistry to assess and resolve environmental problems. In response to the growing public concerns about the environmental protection and conservation issues, the University established the Environmental Science Programme in 1994.



環境科學課程

PROGRAMME MISSION & HIGHLIGHTS

Our body of lecturing staff comprises professors from the School of Life Sciences and Department of Chemistry, as well as other professionals from related disciplines.

Students should focus either on Environmental Management or Environmental Technology.

We foster our students with multi-disciplinary training in ecology, environmental chemistry, instrumentation, pollution control, waste management, biodiversity, conservation biology, toxicology and health, environmental impact assessment, and policy research.

Our Advisory Committee, composed of the specialists from the government, industries, and other academic sectors, also provides precious advice on curricular matters, thus improving the relevance of our graduates to the local needs in particular, and that of overseas as well.

Curriculum

Introduction to Environmental Science

Chemical Treatment Processes

Conservation Biology

Ecology

Environmental and Biochemical Toxicology

Environmental Biotechnology

Environmental Chemistry

Environmental Health

Environmental Impact Assessment

Environmental Instrumentation

Environmental Protection and Pollution Control

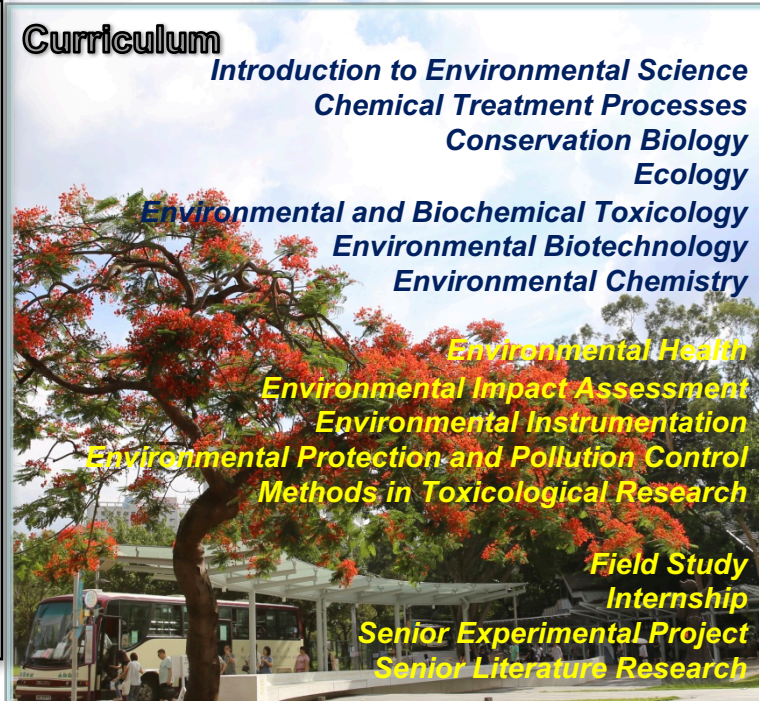
Methods in Toxicological Research

Field Study

Internship

Senior Experimental Project

Senior Literature Research



Selected Job Profiles

Mr. Chickee Chow
Consultant, Environmental Resources Management (ERM)

Miss Carol Kwok
Assistant Environmental Health and Safety Manager, Swire Resources

Dr. Eric Sze
Assistant Professor, Open University of Hong Kong

Mr. Alfred Tang
Senior Compliance Engineer, Avery Dennison

Ms. Felice Wong
Senior Environmental Engineer, Mass Transit Railways Corporation

Mr. F F Yeung
Country Parks Officer, AFCD, HKSAR Government

Mr. Patrick C W Yeung
Project Manager, World Wide Fund-Hong Kong

Miss W Y Yiu
Environmental Protection Officer, EPD, HKSAR Government

ACTIVITIES

Field Study at Mount Kinabalu (4095.2 M)



Sha Lo Tung Field Study in EIA Lab



Internship



Career Talk

Site visit at a metal finishing plant



Site Visit at North-East New Territories (NENT) Landfill Gas Utilization

Guest Lecture



Chinese White Dolphin Survey



Environmental Science Programme

(Applicable to students admitted in 2016-17 and thereafter in a 4 year curriculum)

(JUPAS Catalogue No. JS4601)



BSc Programme in Environmental Science (Minimum Requirement: 123 units)

Other Required Courses

68 Units

Year One

Core (9 units)

LSCI1002 Introduction to Biological Sciences (3 units)
CHEM1280 Introduction to Organic Chemistry and Biomolecules (3 units)
Any one from MATH1520, PHYS1001, PHYS1002, STAT1012

GE (15 units)

PE (2 units)

Year Two

Year Three

Year Four

Core (17 units):
Fundamentals of Biochemistry (3 units)
Cell Biology (3 units)
Basic Laboratory Techniques in Life Sciences (2 units)
Introduction to Environmental Science (3 units)
Ecology/Laboratory (4 units)
Scientific Conduct and Ethics (2 unit)

Core (15 units):
Environmental Chemistry/Laboratory (5 units)
Environmental and Biochemical Toxicology/Laboratory (5 units)
Environmental Instrumentation Techniques/Laboratory (5 units)

Capstone Courses, at least 4 units from:
Senior Experimental Project I (2 units)
Senior Experimental Project II (2 units)
Senior Experimental Project III (2 units)
or
Senior Literature Research (2 unit) and Internship (2 units) or Field Trip (2 units)

Other Courses (≥ 40 units)
e.g. language courses, courses from minor programme or other departments

Major Electives ≥ 23 unit

Courses Offered by Environmental Science Programme (≥ 11 unit)

Advanced Environmental Chemistry	Environmental Impact Assessment/Laboratory
Chemical Treatment Processes	Methods in Toxicological Research/Laboratory
Environmental Health	Principles of Environmental Protection and Pollution Control

Courses offered by Department/Programme in Science Faculty

Accreditation of Laboratory Tests	Food Testing and Environmental Analysis
Advanced Analytical Chemistry	General Microbiology
Animal Physiology	Global Environmental Change
Atmospheric Science	Hong Kong Flora & Vegetation
Biodiversity Laboratory I	Hydrology
Biodiversity Laboratory II	Invertebrate Form and Function
Biology of Fungi and Non-Vascular Plants	Marine Biology
Biology of Vascular Plants	Ocean and Climate
Chemistry in Biofuel	Statistical Techniques in Life Sciences
Conservation Biology	Understanding Our Biosphere
Environmental Biotechnology	Vertebrate Life
Field and Environmental Biology	

Courses offered by Department/Programme in non Science Faculty

Ecosystem Restoration and Management	Urban and Regional Planning
Energy Resources	Urban Environmental Problems
Energy Utilization & Human Behaviour	Urban Planning Theory and Practice
Environment and Health	
Environmental Management	
Environmental Planning and Assessment	
Hydrology and Water Resources	
Methods for Resource Evaluation and Planning	
Sustainable Urban Transport	
Soil Science	
The Environment and the Law	
Tourism Planning and Management	

Recommended Concentrations: Environmental Management or Environmental Chemistry