

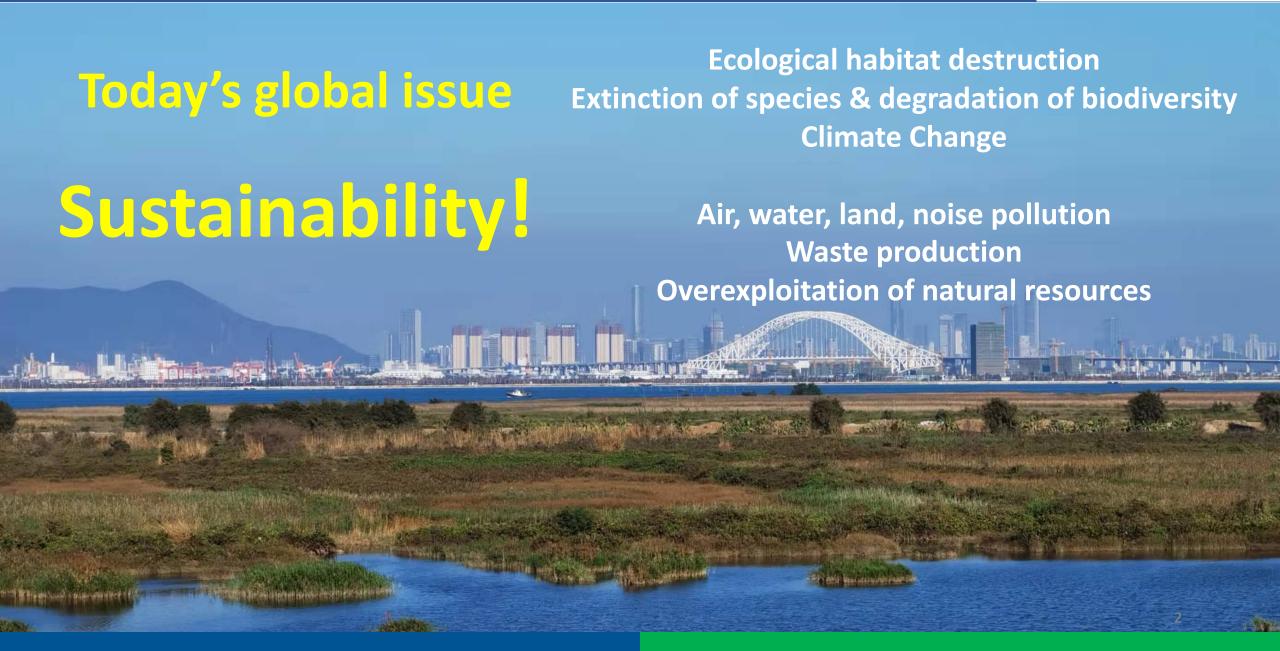
Why study **Environmental Science** at BNU-HKBU United International College













About Environmental Science

- To learn:
 - How nature works
 - **\Delta** How people connect to the environment
 - **\Delta** How to prevent environmental degradation
 - **\Delta** How to restore the damaged environment
- Scope:
 - Local, regional, and global
 - An interdisciplinary subject: science subjects (incl. biology, chemistry, statistics, mathematics, and physics etc.), social sciences, and business management subjects.





Learn how we contribute to the 10 SDGs















Why study Environmental Science @UIC?

- ✓ Curriculum
- √ Faculty and Staff
- ✓ Facilities, Environment and Location
- ✓ Student supports



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Key Features of the Curriculum

- 1. Comprehensive & Flexibility
- 2. Interdisciplinary
- 3. Balance
- 4. International benchmarking



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Wide-range of Major Courses for Students' Choice

Major required courses (55 units)



Major elective courses (18 units)

No. of **Course Categories** Courses A. Fundamental Science Courses **Environmental Science Foundation Courses** 10 **Environmental Natural Science** Environmental Technology, Science and Engineering Environmental Management, Humanity, and Social Science Other courses in Environmental Study 4 Courses offered by other science programmes 4 H. Courses offered by business programmes 4

73 units



Major Required Courses

A. Fundamental Courses

Diversity of Life and Laboratory

General Biology

Microbiology

Conservation Ecology

General Chemistry

Biology and Ecology Laboratory

Chemistry Laboratory

Laboratory Safety

Introduction to Probability and Statistics

B. Environmental Science Foundation Courses

Introduction to Planet Earth Science

Introduction to Environmental Science

Resources and the Environment

Environmental Health and Toxicology

Environmental Biotechnology and Laboratory

Sustainable Environmental Management

Environmental Study Laboratory

Atmospheric Science and Pollution

Hydrology and Water Engineering

Final Year Project I (ENVS)



Major Elective Courses

C. Environmental Natural Science

Biodiversity and the Extinction Crisis

The Ecology and Bioconservation in China

Biochemistry

Practical Biodiversity Conservation

Fundamentals of Biogeochemistry

Terrestrial and Aquatic Environments in China

D. Environmental Technology, Science and Engineering

Biochemistry and Biotechnology Laboratory

Chemical Analysis

Introduction to Environmental Engineering

Environmental Chemistry and Pollution Control

Practical Environmental Analysis and Monitoring

Environmental Nanotechnology

Introduction to Geographic Information Systems for Environmental Management

Land Contamination and Remediation



Major Elective Courses

E. Environmental Management, Humanity, and Social Science

Climate Change

Introduction to Eco-cities

China's Environmental Law and International Cooperation Policy

Introduction to Occupational Health and Safety

Green Business Management

Integrated Solid Waste Management

Selected Topics in Environmental Science

ISO Generic Management Systems (ISO9001 & ISO14001) and Auditing

F. Other courses in Environmental Study

Research Methods for Environmental Science and Studies

Final Year Project II (ENVS)

Internship in Environmental Science and Management

[GE Capstone course] Ecological Civilization in Greater Bay Community



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Major Elective Courses (Interdisciplinary)

G. Courses offered by other science programmes

Python Programming for Beginners

Linear Algebra I

Calculus for Science and Engineering

Principles of Physics

H. Courses offered by business programmes

Principles of Accounting I

Principles of Macroeconomics

Principles of Microeconomics

Human Resource Management





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Balanced proportion of course types

15% courses in natural sciences and maths

30% courses in Environmental Science

20% laboratory or practical courses in Environmental Science

35% courses in others (humanities, social science, and general education)



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Benchmarking Globally Top Env. Sci. Programmes

Regions	Universities	Remarks
North America	Yale University	Globally top university
Europe & UK	Wageninger University and Research	 Globally top Environmental Science Programme
	Lancaster University (Lancaster Environmental Center)	 The oldest and very impactful environmental research centers in UK
Australia	Australia National University	Globally top university
Hong Kong China	Hong Kong University	Globally top university
	Chinese University of Hong Kong	Globally top university
Mainland China	Nottingham University Ningbo	• Top Sino-overseas joint university in China
	Xi'an Jiaotong – Liverpool University	• Top Sino-overseas joint university in China



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New

faculty

Our Academic Teaching Team

Urban Ecology and Landscape Restoration

Environmental Economics

Environmental Engineering

Environmental Chemistry



Prof. Daniel RUAN (Chemistry, Mineralogy)



Dr. Donald LEE (Biochemistry)



Dr. Thomas WANG (Environmental Engineering)



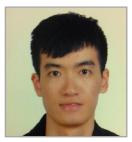
Dr. Daniel TANG (Safety)



Dr. Bonny YUEN (Ecotoxicology)



Dr. Siu-tai TSIM (Biology)



Dr. Eason LI (Geography)

Sustainable Environmental Management

Environmental Biology

Environmental Technology

Climate Change

Environmental

Environmental Spatial Analysis

Mathematical Modelling



Internationalization

Our professors' international working and research experiences help you to develop global vision and become success





Our ENVS Academic Supporting Team

Instructors

Lab Management Team

Ms. Sunshine CHEN Chemical Engineering



Ms. Shimei HE Environmental Science



Mr. Car WU Chemistry Biology





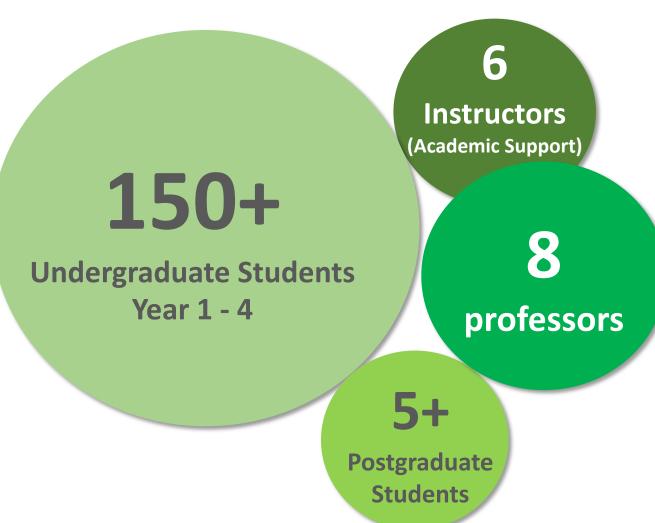
Ms. Yang LI Environmental Engineering ESG, LCA



Ms. Dorcas WANG Environmental Science Analytical Chemistry



ENVS Community



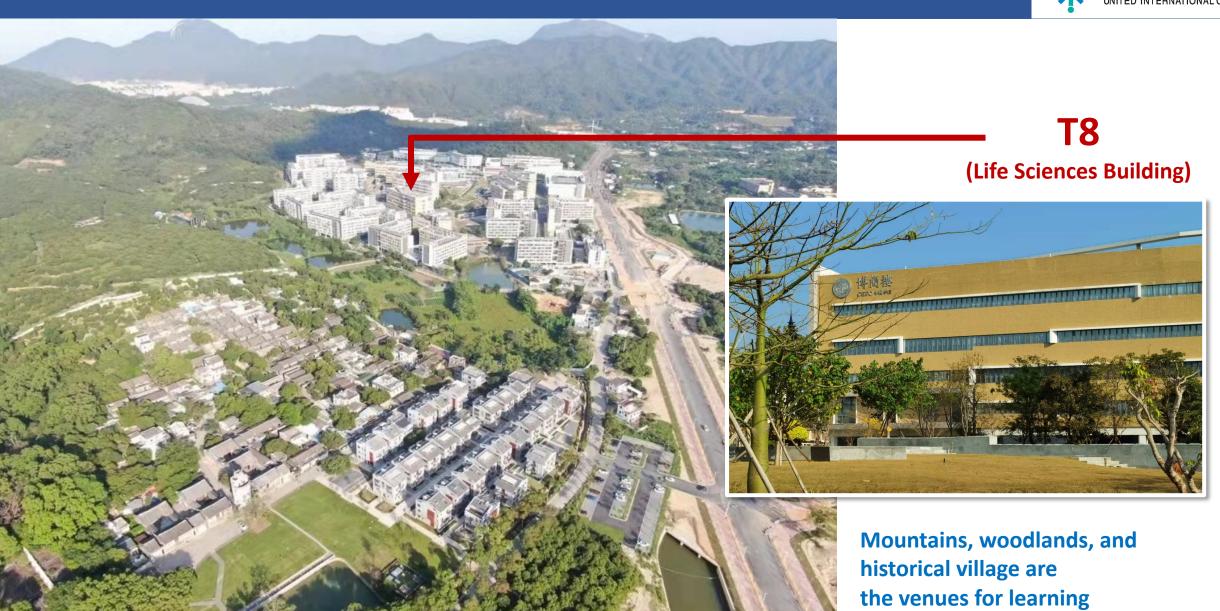




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Laboratories in Environmental Science Programme

Research Lab.





Aquaculture Lab.



GIS facility



Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Undergraduate students can use Modern Equipment



Fourier Transform
Infrared Spectroscopy
(FTIR)







Gas Chromatography Mass Spectrometry (GC-MS)

Surface Area Analyzer

High Performance Liquid Chromatography (HPLC)

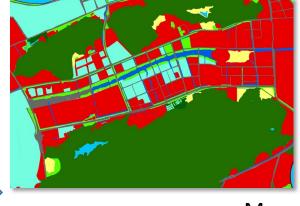


UAV (Unmanned Aerial Vehicle)

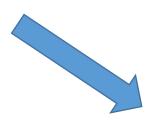


Eco Data Hub

UIC Interdisciplinary Research Hub on Eco-Environmental Data of Zhuhai



Map







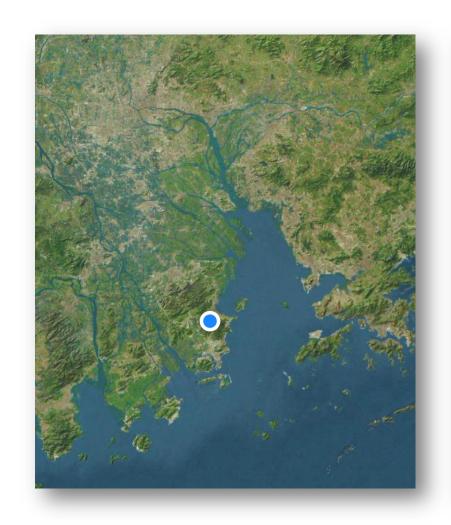
GIS Stations







The Environment – Greater Bay Area







The Environment – Zhuhai, a coastal city

Mangrove & Wetlands



Intertidal & Coastal area



Streams & Channels





Rice paddles & Agricultural fields



Orchard & Woodland



Livestock & Organic farm



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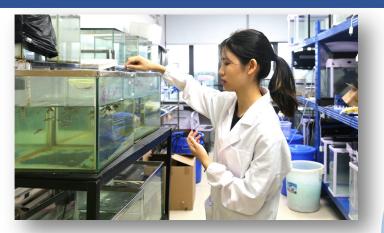
Various Co- and Extra-curricular Activities













UG Research

experience



Introduction













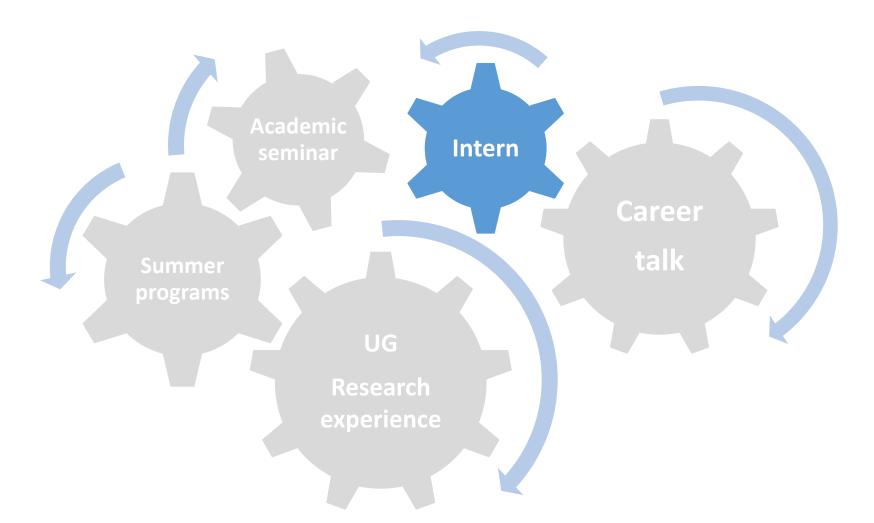
Intern connections @ Zhuhai, Guangzhou, Shenzhen













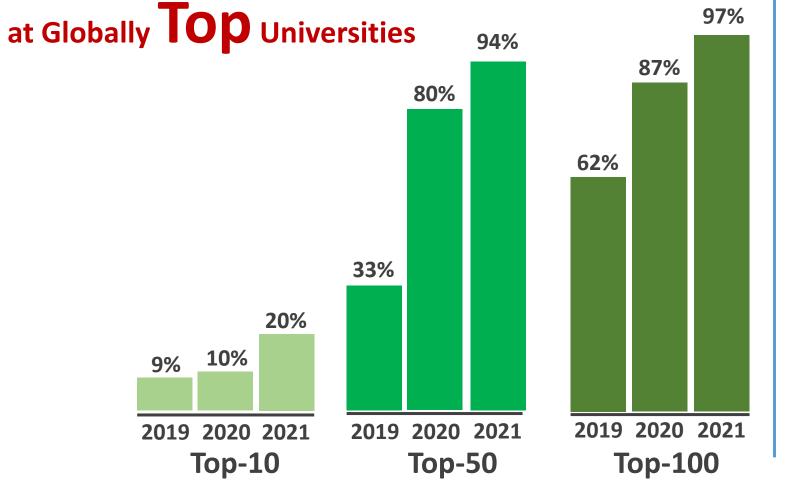


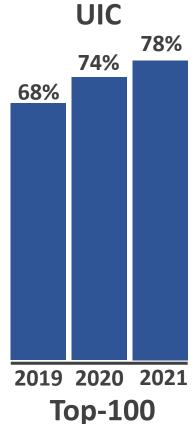




Env. Sci. Graduates' Performance

Pursuing Postgraduate Programs







Environmental Management

Biotechnology

Environmental & Public Health

Environmental Engineering

Wide-range of further studies and career development

Green Business & Investment

Bio-resource Conservation

Nature Conservation & Environmental Education

Environmental Technology

Chemical Analysis
& Laboratories

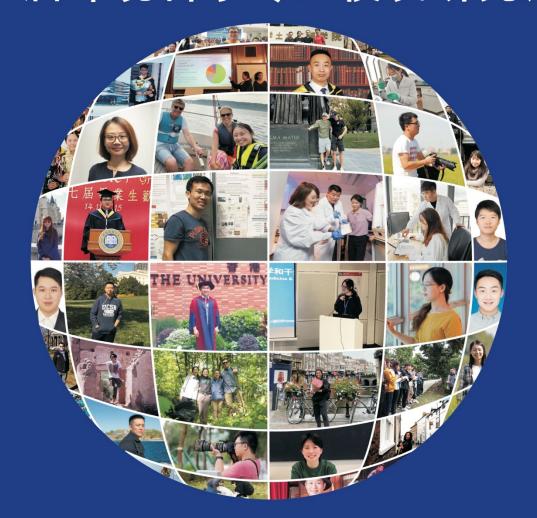








The 1st Environmental Science Alumni Research Forum 第一届环境科学专业校友研究论坛



Since 2009, the first batch of graduates.....

75%

alumni obtained Master's degrees

28(6%)

alumni pursuing PhD degrees

5 alumni

are faculty members in universities



Career Graduates can develop profession career in the following (but not limited to) directions:

Environmental Engineering Environmental Science

Green Technology

Green Energy

Green Building

Pollution Control

Environmental Management

Environmental Health and Safety (EHS)

Public Environment and Health

Occupational Health

Sustainable Development

Corporate Environmental Governance

Analytic Chemistry

Biodiversity Conservation Sustainable Resources Management Climate Change Biotechnology

Environemntal Economics Urban Planning Geographic Information System



Environmental Science



our Present and Future



Visit our webpage at https://dst.uic.edu.cn/envs_en/

Join us! Be one with nature!

