

EdUHK

Undergraduate Programme Introduction

Department of Science and Environmental Studies (SES)



科學與環境學系
Department of Science
and Environmental Studies

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Email: dses@eduhk.hk





香港教育大學

The Education University
of Hong Kong

Bachelor of Science (Honours) in

Integrated Environmental Management

(Four-year Full-time)

綜合環境管理榮譽理學士

(四年全日制)

Normal Period of Study :

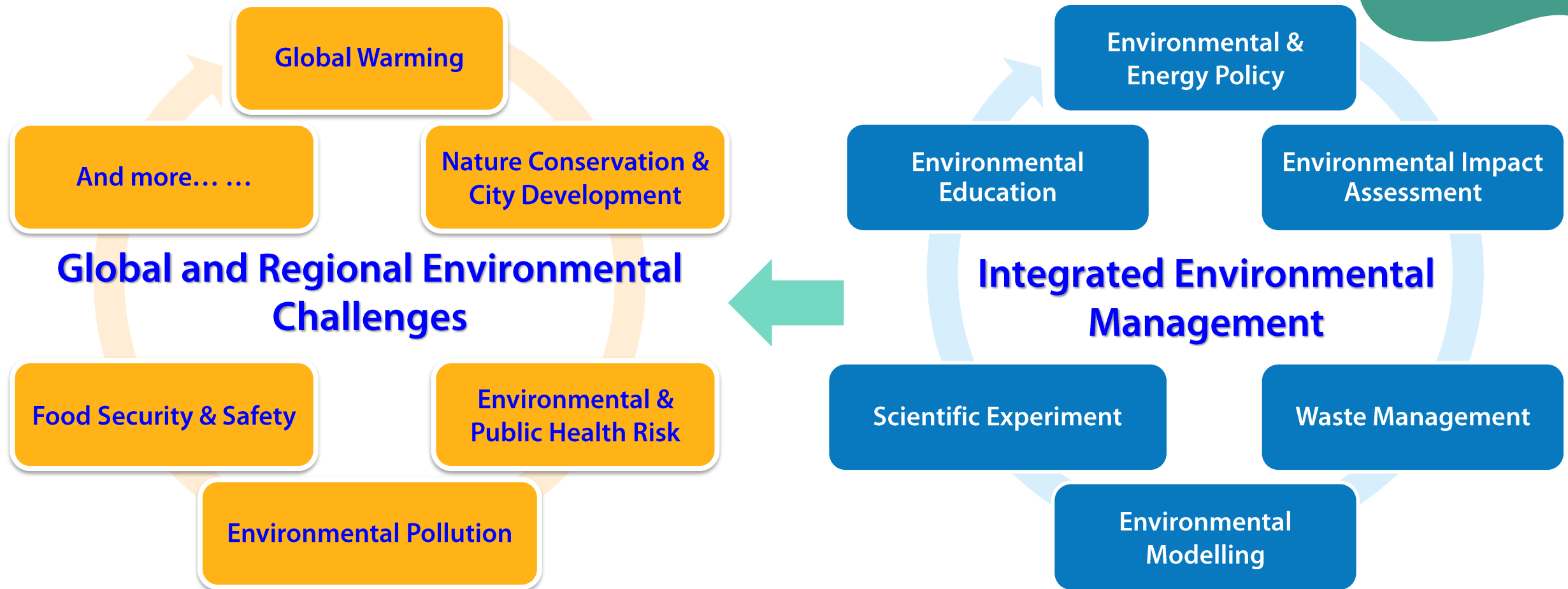
4 Years (for Year 1 Admissions)

2 Years (for Senior Year Admissions)



Programme Code : **JS8702 (JUPAS)** / NJ8702S (Non-JUPAS)

Programme Features



Programme Features

全面而深入理解

In-depth Integrated Understanding

Analyses pressing environmental sustainability challenges at the local, regional and international levels from scientific, regulatory, institutional and ethical perspectives.

Evidence-based & Communication-driven

Develops sustainable solutions and recommendations based on prudent use of scientific evidence and conveys important messages related to environmental sustainability through quality communication.

Experiential Learning

Enables students to apply their knowledge and skills through participating in the Internship, local / non-local field trips, experiential learning activities, and other community engagement activities.

實證為本、
溝通導向

經驗學習

Programme Structure

Domain		Year 1 Admissions	Senior Year Admissions
		Credit Points (cps)	
Major	Major Core		
	Coursework	39	24
	Overseas Field Trip	3	/
	Internship	3	3
	Major Elective	3	3
	Cross-Faculty Core Course	3	/
	Major Interdisciplinary Course	3	3
Final Year Project	Honours Project / Capstone Project	6	6
Second Major* / Minor(s) / Electives		30	15
General Education		22	6
Language Enhancement		9	/
Total:		121	60

* Not applicable for Senior Year Admissions.

Students are required to visit the Greater Bay Area (GBA) for a short trip (e.g., 2-day-1- night trip) in order to complete the Cross-Faculty Core Course.

Course Sequence – Major Courses

Year	Semester	Course Title	Domain
1	I	<ul style="list-style-type: none">• Society and Nature• Ecology	Major Core
	II	<ul style="list-style-type: none">• Environmental Science and Management• Statistics for Environmental Analysis	Major Core
2	I	<ul style="list-style-type: none">• Pollution Control and Waste Management	Major Core
	II	<ul style="list-style-type: none">• Geographical Information Systems for Environmental Management	Major Core
	Summer	<ul style="list-style-type: none">• Contemporary Environmental Issues	Major Core

Course Sequence – Major Courses

Year	Semester	Course Title	Domain
3	I	<ul style="list-style-type: none"> Environmental Impact Assessment Environmental Modelling 	Major Core
		<ul style="list-style-type: none"> Conservation and Management of Natural Resources Innovative Technologies for Environmental Management 	Major Elective [#]
	II	Environmental Ethics	Major Core
		Environmental Education and Communication	Major Elective [#]
	Summer	Internship	Major Core
4	I	<ul style="list-style-type: none"> Environmental Politics and Policy Environmental Economics 	Major Core
		The Sustainable Development Goals and Education	Major Interdisciplinary
	II	<ul style="list-style-type: none"> Environmental and Public Health Risk Assessments Food Security, Safety and Management 	Major Core

[#] Choose ONE out of the three Major Elective Courses; the course list is subject to change and approval

Local Field Trip



Ting Kok



Ha Pak Lai



Non-Local Field Trip

A compulsory 3-cp Major course, the “Contemporary Environmental Issues”, scheduled in the summer between Year 2 and Year 3. A series of seminars to allow students understanding of selected environmental issues, along with field trips in Greater Bay Area / Overseas.



Internship

Students will have opportunities to conduct Internship in relevant organisations during the 3rd summer block (between Year 3 and Year 4). Below are some examples of Internship 2023:

Stream A: Environmental Science and Management



Telemax Environmental and
Energy Management



Stream B: Environmental Actions and Communications



Final Year Project

Students can choose to conduct Honours Project or Capstone Project:

Honours Project

Research in environmental science and management and in related disciplines

Capstone Project

Environmental communication for promoting public awareness

Go Global



90%+

students who have applied for Exchange Programme receive exchange offers

One-semester Credit Bearing Exchange



200+

Exchange Partners

Leadership Enhancement & Development Programme Outside Hong Kong



30+

Countries

Summer Community Outreach Programme

Max.
\$10,000
for each undergraduate students

Career Prospect

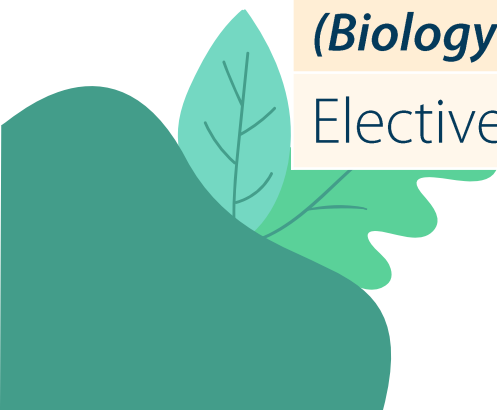
就業前景



Entrance Requirements (Year 1 Admissions)

- HKDSE applicants

Subject	Minimum Level
English Language	3
Chinese Language	3
Mathematic (Compulsory Part)	2
Citizenship and Social Development	Attained
Elective Subject 1 (<i>Biology / Chemistry / Physics / Geography</i>)	2
Elective Subject 2	2



JUPAS Application Statistics

BSc (IEM) Figures (As of Sep 2023)

Application Statistics (after Modification of Programme Choices)

Year	Band A	Band B	Band C	Band D	Band E	Total
2023	314	253	253	339	294	1453
2022	152	118	150	178	191	789

100% from Band A

Offer Statistics (as at the Announcement of the Main Round Offer Results)

Year	Band A	Band B	Band C	Band D	Band E	Total
2023	22	0	0	0	0	22
2022	20	0	0	0	0	20

Retrieved from JUPAS Website

<https://www.jupas.edu.hk/en/programme/eduhk/JS8702/>

JUPAS Score Calculation for 2024 Entry

The admission score is the sum total of the level/grade values of the best five HKDSE subjects (i.e., Best 5), regardless of whether they are core or elective subjects and excluding the Citizenship and Social Development subject.

Scoring Scale:

Category A: Core and Elective Subjects							
Level	5**	5*	5	4	3	2	1
Score	7	6	5	4	3	2	1

Subject Weightings for JUPAS Score Calculation:

Subject	Subject Weightings
Mathematics	x 1.5
Biology	x 1.5
Chemistry	x 1.5
Physics	x 1.2
Geography	x 1.2

EdUHK Self Nomination Admissions Scheme for STEM-related Programmes

- The EdUHK Self-Nomination Admissions Scheme is designed for JUPAS applicants with exceptional potential and outstanding talent in music, sports, **STEM** or visual arts.
- **Applicants can submit their self-nominations to the BSc(IEM).**
- Applicants shortlisted will be interviewed in February or June. Students with excellent performance in the interview(s) will be given priority of admission, if deemed appropriate.



EdUHK Self Nomination Admissions Scheme for STEM-related Programmes

Eligibility

- Put BSc(IEM) as **Band A choice(s)** in JUPAS application;
- Obtain high performance standard in respective STEM areas with relevant achievements;
- Recommended by relevant associations/ organisations/ schools (optional but preferable).

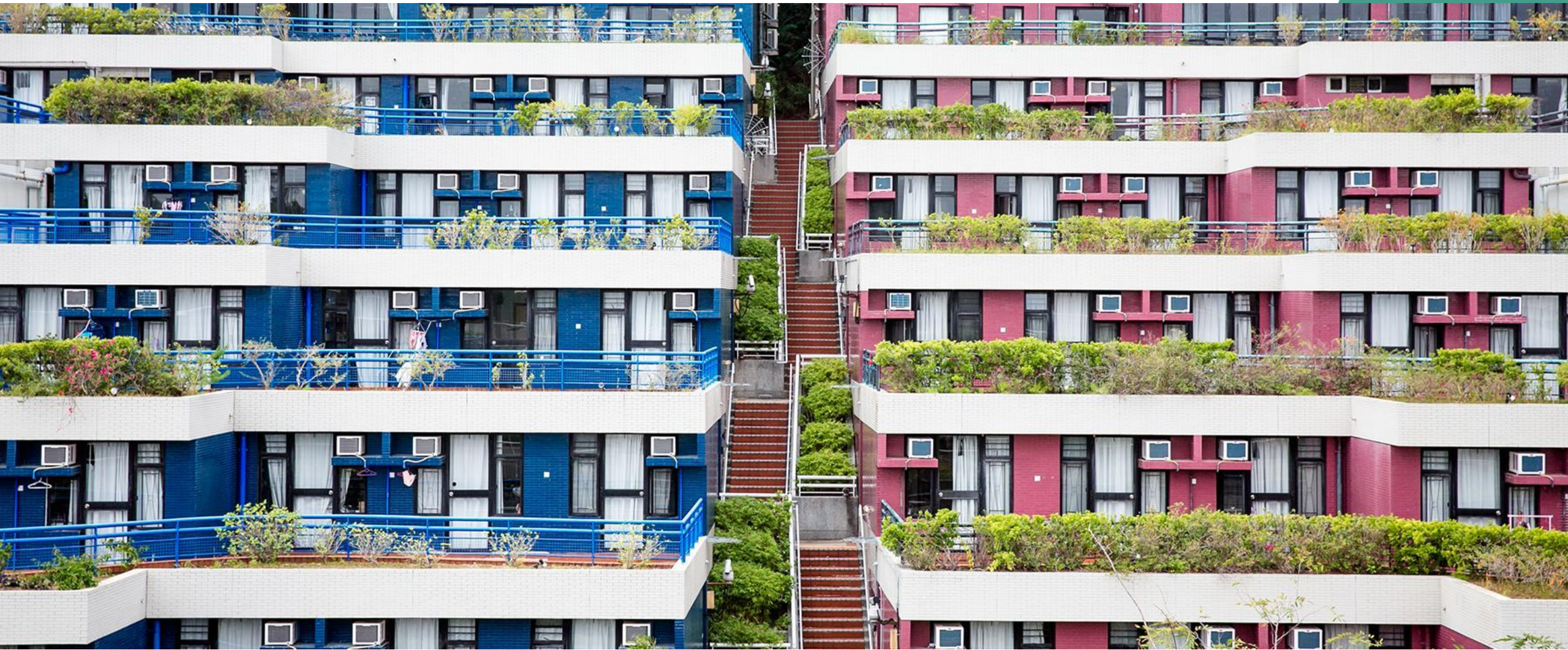


www.apply.eduhk.hk/ug/selfnom

University Campus



Student Hostels





4th in Asia and
21st in the
world

**World class
recognition**

(QS) World University
Rankings by Subject
(Education and Training)
2023

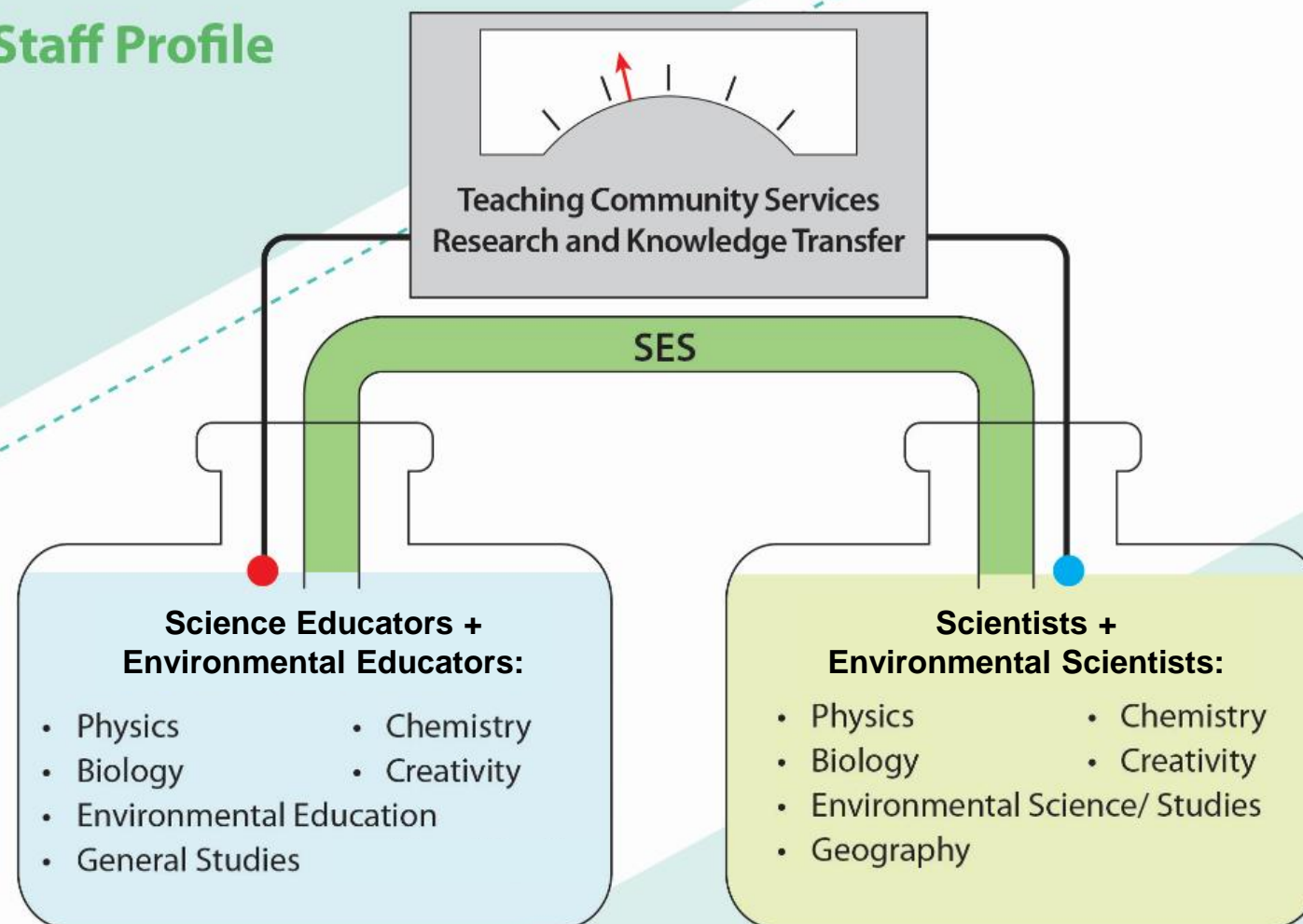
“Education-plus”
vision

**An education
that is
more than
Education**

Our academic scope is not limited to the traditional strength of teacher education but has expanded to a wide range of complementary programme offerings.

About SES Department

SES Staff Profile



International Awards and Prizes

Stanford University List of World's Top 2% Scientists 2022

- ▶ Prof WONG Ming Hung
- ▶ Prof WU Shiu Sun Rudolf
- ▶ Prof HO Wing Kei Keith
- ▶ Prof CHOW Cheuk Fai Stephen
- ▶ Dr LI Wai Chin
- ▶ Dr TSANG Yiu Fai Chris
- ▶ Dr FOK Lincoln
- ▶ Dr AU Ka Man Vonika

The infographic is a green-themed poster for The Education University of Hong Kong. It features the university's logo and name in both Chinese and English at the top left. The main title, 'Stanford University List of World's Top 2% Scientists (2022*)', is prominently displayed in the upper right. Below the title, eight circular portraits of scientists are arranged in two rows of four. Each portrait is set against a colored background and includes a label for their field of study. The scientists and their fields are: Prof WONG Ming Hung (Environmental Sciences), Prof HO Wing Kei (Physical Chemistry), Prof Rudolf WU (Marine Biology & Hydrobiology), Prof CHOW Cheuk Fai Stephen (Organic Chemistry), Dr LI Wai Chin (Environmental Sciences), Dr TSANG Yiu Fai (Environmental Sciences), Dr FOK Lincoln (Environmental Sciences), and Dr AU Ka Man Vonika (General Chemistry). At the bottom left, a reference is provided: 'Reference: Ioannidis, John P.A. (2023). "October 2023 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6'. At the bottom right, the logo and name of the Department of Science and Environmental Studies are shown.

香港教育大學
The Education University
of Hong Kong

Stanford University
List of World's Top 2% Scientists (2022*)

ENVIRONMENTAL SCIENCES
Prof WONG Ming Hung

PHYSICAL CHEMISTRY
Prof HO Wing Kei

MARINE BIOLOGY & HYDROBIOLOGY
Prof Rudolf WU

ORGANIC CHEMISTRY
Prof CHOW Cheuk Fai Stephen

ENVIRONMENTAL SCIENCES
Dr LI Wai Chin

ENVIRONMENTAL SCIENCES
Dr TSANG Yiu Fai

ENVIRONMENTAL SCIENCES
Dr FOK Lincoln

GENERAL CHEMISTRY
Dr AU Ka Man Vonika

*Reference:
Ioannidis, John P.A. (2023). "October 2023 data-update for "Updated science-wide author
databases of standardized citation indicators", Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6

科學與環境學系
Department of Science
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International Awards and Prizes

- >15 Awards and Prizes in **international competitions**, e.g. The International Exhibition of Inventions of Geneva and International Invention Innovation Competition in Canada since 2018
- **Highly Cited Researcher** by Clarivate Analytics : (Prof HO Wing-kei, Keith) since 2018
- **Milton P. Gordon Award for Excellence** in Phytoremediation, by International Phytotechnology Society (Prof WONG Ming-hung)
- **National Innovation Award** in Aerosol Technology, by Chinese Society of Particuology (Prof HO Wing-kei, Keith)



SES Department and Facilities

Laboratory of Marine Pollution (Consortium Member of State Key Laboratory of Marine Pollution (SKLMP))



Physics Laboratory



Chemistry Laboratory



Astronomical optics laboratory

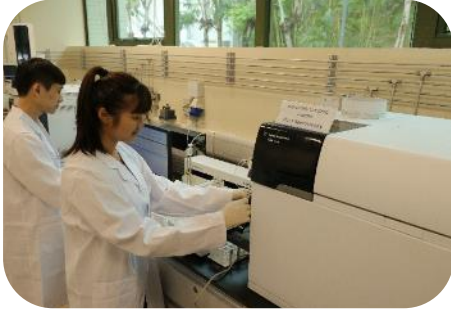


Biology Laboratory

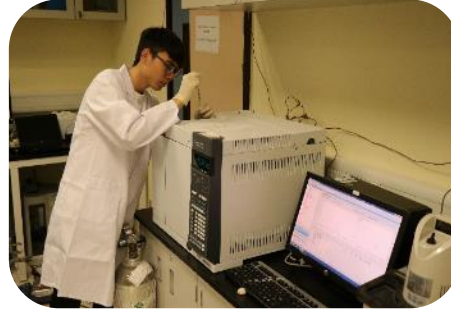


STEM Laboratory

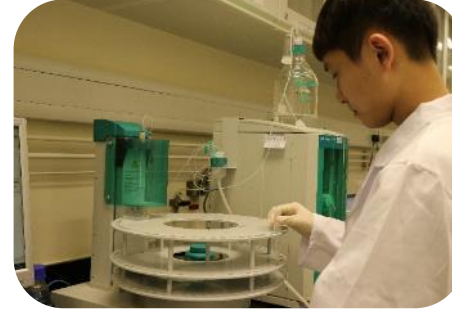
SES Department and Facilities



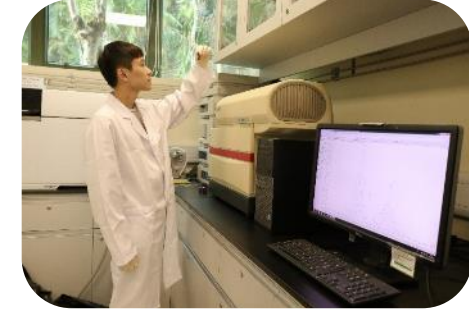
Inductively Coupled Plasma
Mass Spectrometry
(ICP-MS)



Gas Chromatography(GC-
FID/TCD/FPD Analysis)
GC-(FID/TCD)



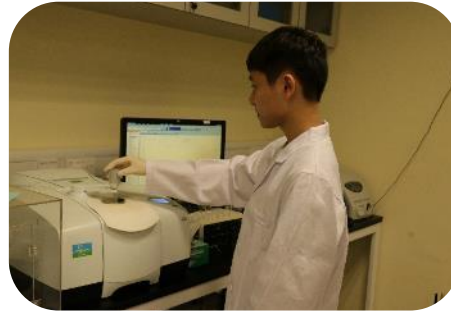
Ion- Chromatography



High-Performance Liquid
Chromatography (HPLC)



Total Organic Carbon
Analyzer (TOC-L)



Fourier Transform Infrared
Spectroscopy (FTIR)



3D Printer



Laser Cutter



SES Department and Facilities

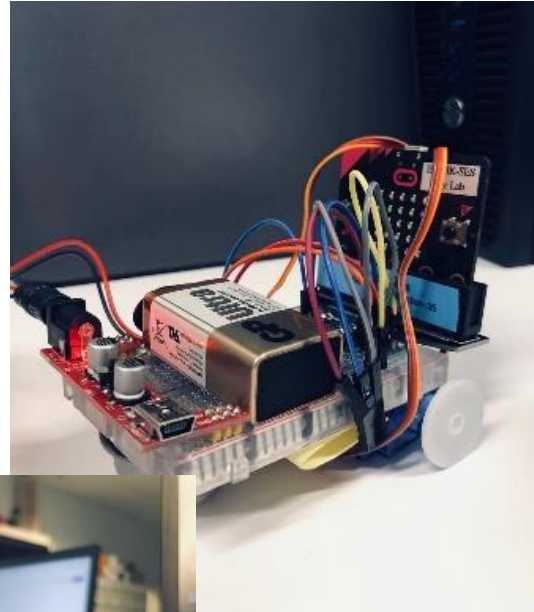
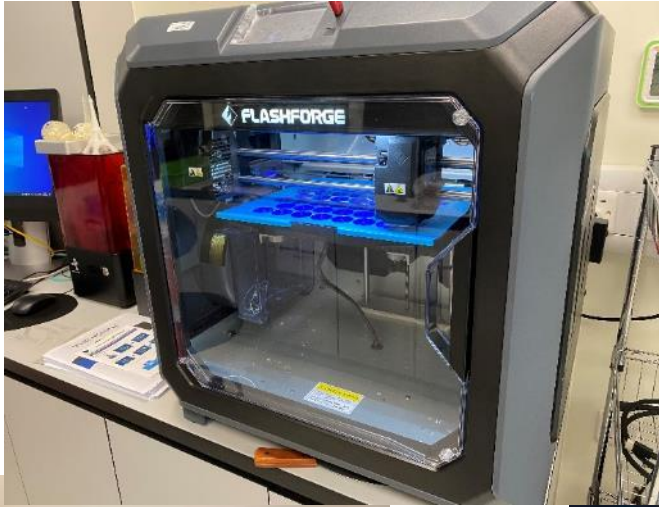


Ultracentrifuge and CHNO/S elemental analyzer

LCMSMS and GCMS



SES Department and Facilities



STEM Laboratory

- ▶ Laser Machine
- ▶ 3D Printer
- ▶ Make block Robotics
- ▶ Drilling Machine
- ▶ Many different tools for STEM experiments



SES Department and Facilities



Established in 2016, which serves several purposes:

- ▶ Facilitating the University's development of environmental studies;
- ▶ Providing education for sustainability;
- ▶ Enhancing students' knowledge and awareness of environmental protection.



Overseas Learning Opportunities

Korea



Singapore



Japan



Malaysia



东北师范大学 生态学联合野外实习 (2023) Jilin Province



GBA Tour



Informal Learning



Students have opportunities to participate in...





Diving Team 潛水隊



Eco-garden Farmers and Surveyors 生態園農夫與生物多樣性調查隊



Programme Information and Enquiries

Admission Enquiries

 (852) 2948 6886

 admission@eduhk.hk

 www.apply.eduhk.hk/ug

Programme Enquiries

Dr MAN Yu Bon Brian

 (852) 2948 8917

 ybman@eduhk.hk

General Office

 (852) 2948 6438

 dses@eduhk.hk

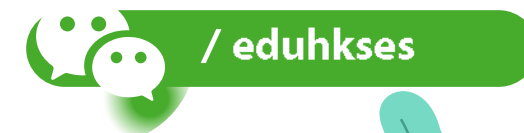


More Information

Department of Science and Environmental Studies

☎ 2948 7669

✉ dses@eduhk.hk



Disclaimer

A large, teal-colored abstract shape with organic, flowing edges is positioned in the top right corner of the slide, partially overlapping the white background.

Every effort has been made to ensure that information contained in this PowerPoint is correct. Changes to any aspects of the programmes may be made from time to time due to unforeseeable circumstances beyond our control and the University reserves the right to make amendments to any information contained in this website without prior notice. The University accepts no liability for any loss or damage arising from any use or misuse of or reliance on any information contained in this PowerPoint.

Any aspect of the course and course offerings (including, without limitation, the content of the course and the manner in which the course is taught) may be subject to change at any time at the sole discretion of the University. Without limiting the right of the University to amend the course and its course offerings, it is envisaged that changes may be required due to factors such as staffing, enrolment levels, logistical arrangements, curriculum changes and other factors caused by unforeseeable circumstances.. Tuition fees, once paid, are non-refundable.

Students admitted into this programme starting from the 2023/24 cohort are required to visit the Greater Bay Area (GBA) and/or other parts of Mainland China. Programme may also require students to participate in other non-local learning experience for completion of the programme. While the visits are heavily subsidised, students are still required to contribute part of the estimated cost of the visits ("student contribution"), whereas personal entertainment, meals expenses, travel document fee and personal insurance costs will not be supported. The estimated cost of the visits for students admitted to the 2024/25 cohort is not available yet as it is subject to a variety of factors such as changes to the cost of the visits as a result of inflation, trip duration, traveling expenses, the exchange rate, etc. The exact amount of student contribution is thus not available.