



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 :

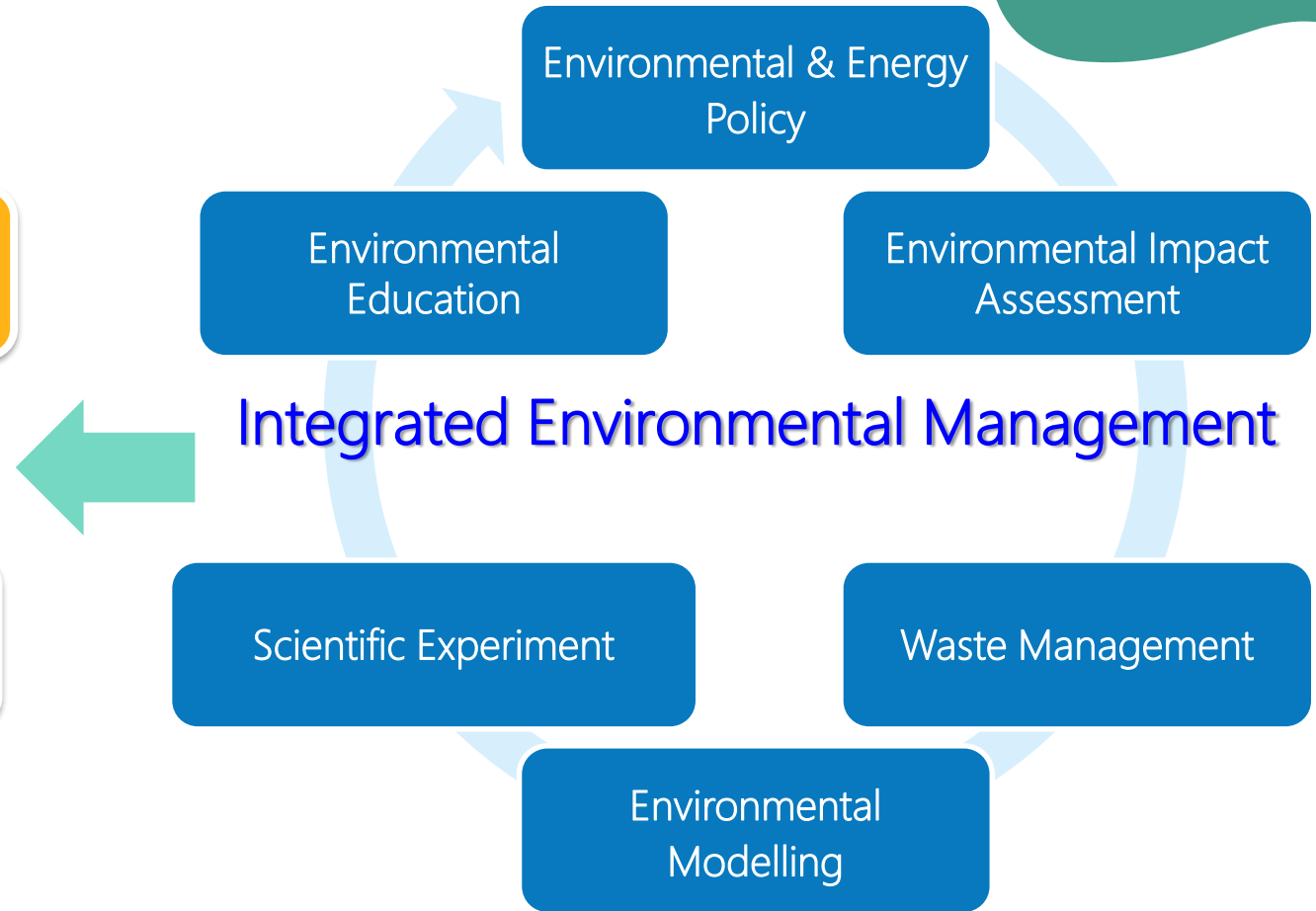
4 Years (for Year 1 Admissions)

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)	
<b>Major</b>	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
<b>Final Year Project</b>	Honours Project / Capstone Project	6	6
<b>Second Major* / Minor(s) / Electives</b>		30	15
<b>General Education</b>		22	6
<b>Language Enhancement</b>		9	/
<b>Total:</b>		<b>121</b>	<b>60</b>

\* 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

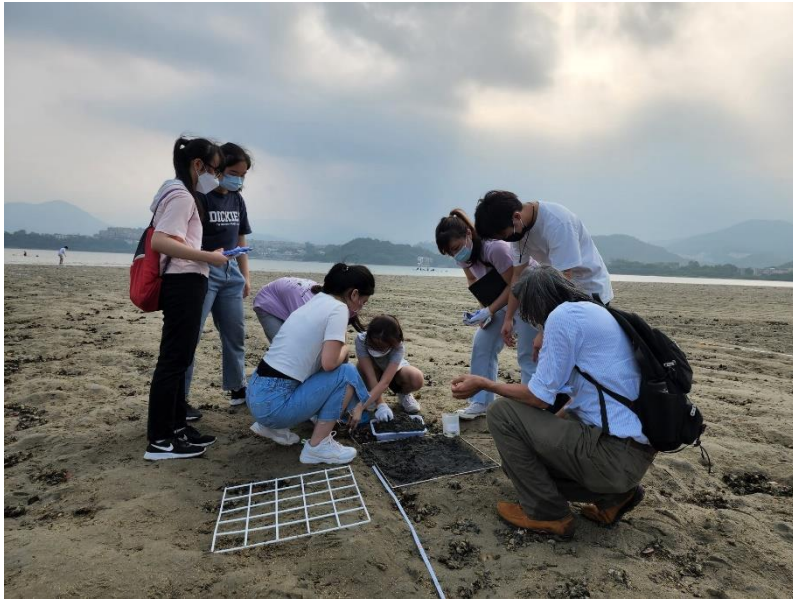
Year	Semester	Course Title	Domain
1	I	<ul style="list-style-type: none"><li>• Society and Nature</li><li>• Ecology</li></ul>	Major Core
	II	<ul style="list-style-type: none"><li>• Environmental Science and Management</li><li>• Statistics for Environmental Analysis</li></ul>	Major Core
2	I	<ul style="list-style-type: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

# Course Sequence – Major Courses

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

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

# Local Field Trip



Ha Pak Lai

Ting Kok



# 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 3<sup>rd</sup> summer block (between Year 3 and Year 4). Below are some examples of Internship 2023:

## Stream A: Environmental Science and Management



A member of the Bouygues Construction group



Fung Yuen Butterfly Reserve



Telemax Environmental and Energy Management

## Stream B: Environmental Actions and Communications



香港青年協會  
the hongkong federation of youth groups  
大美督戶外活動中心  
Tai Mei Tuk Outdoor Activities Centre



# 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

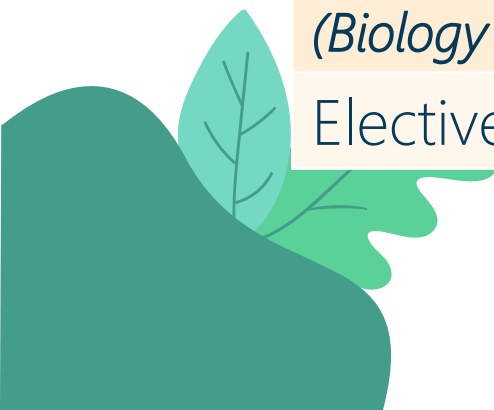
## 就業前景



# 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](http://www.apply.eduhk.hk/ug/selfnom)

# Programme Information and Enquiries

## Admission Enquiries

 (852) 2948 6886

 [admission@eduhk.hk](mailto:admission@eduhk.hk)

 [www.apply.eduhk.hk/ug](http://www.apply.eduhk.hk/ug)

## Programme Enquiries

Dr MAN Yu Bon Brian

 (852) 2948 8917

 [ybman@eduhk.hk](mailto:ybman@eduhk.hk)

## General Office

 (852) 2948 6438

 [dses@eduhk.hk](mailto:dses@eduhk.hk)



# University Campus



# Student Hostels





**4<sup>th</sup>** in Asia and  
**21<sup>st</sup>** in the  
world

**World class  
recognition**

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

“Education-plus”  
vision

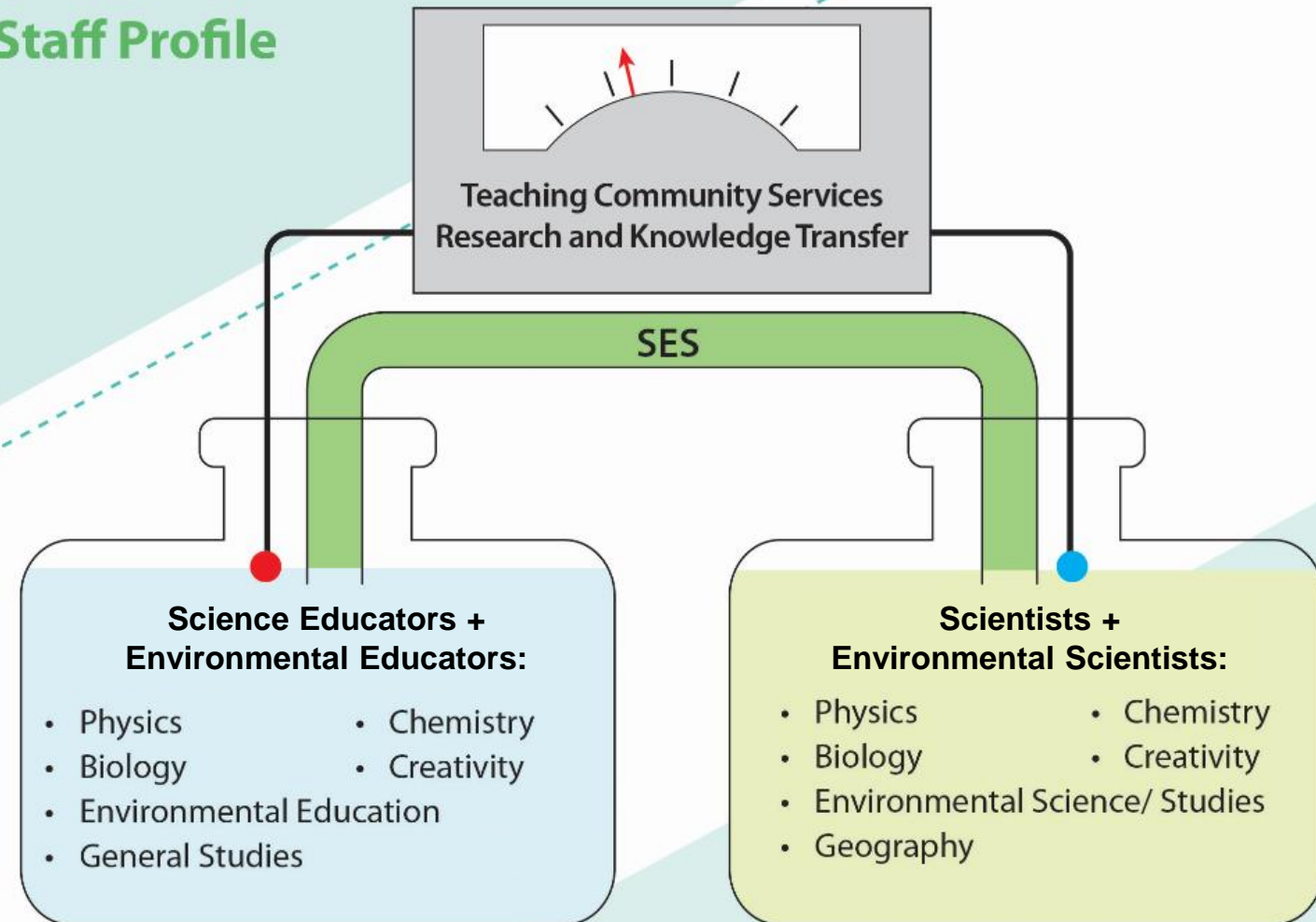
**An education  
that is  
more than  
Education**

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

香港教育大學  
The Education University  
of Hong Kong

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

Name	Field of Study
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
Dr AU Ka Man Vonika	GENERAL CHEMISTRY

\*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  
and Environmental Studies

# 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

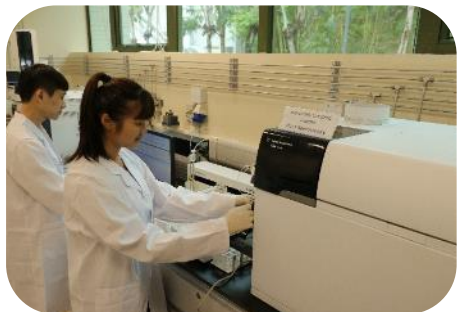


Biology Laboratory

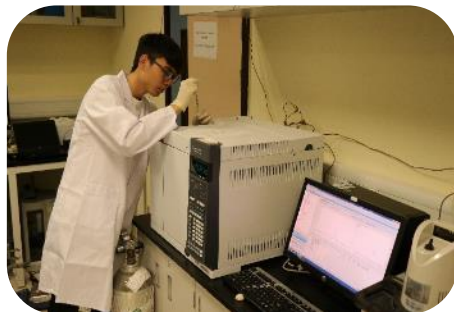


STEM Laboratory

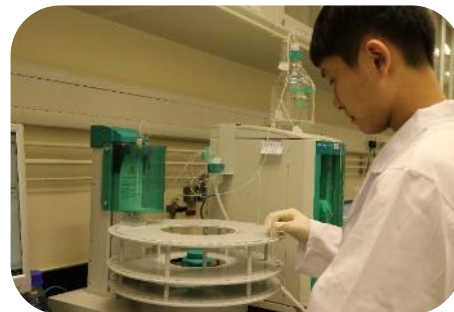
# SES Department and Facilities



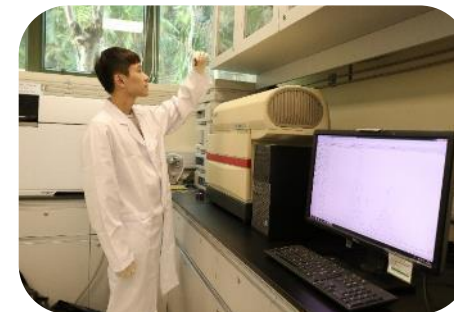
Inductively Coupled Plasma  
Mass Spectrometry  
(ICP-MS)



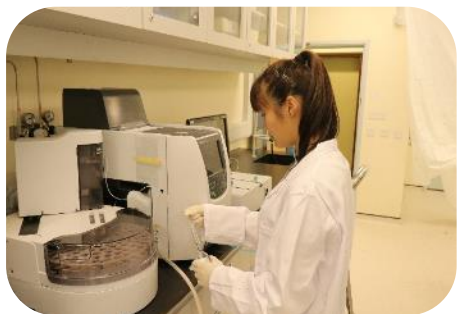
Gas Chromatography(GC-  
FID/TCD/FPD Analysis)  
GC-(FID/TCD)



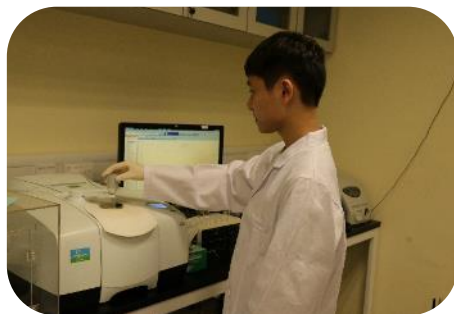
Ion- Chromatography



High-Performance Liquid  
Chromatography (HPLC)



Total Organic Carbon  
Analyzer (TOC-L)



Fourier Transform Infrared  
Spectroscopy (FTIR)



3D Printer



Laser Cutter



# SES Department and Facilities

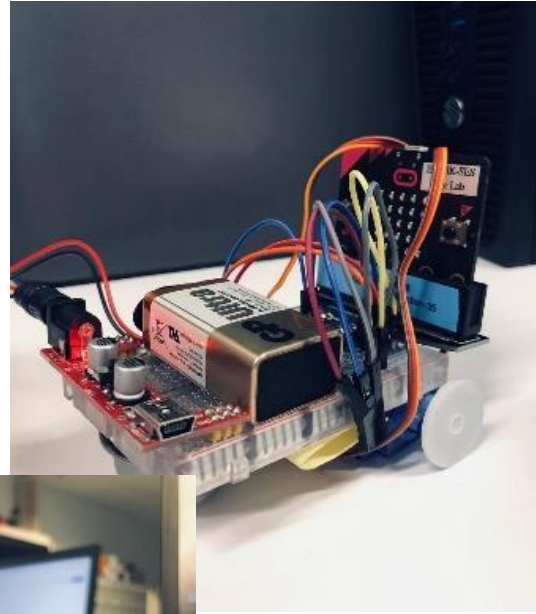


Ultracentrifuge and CHNO/S elemental analyzer

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  
香港教育大学



# 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

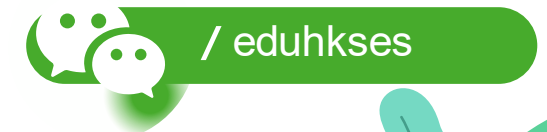
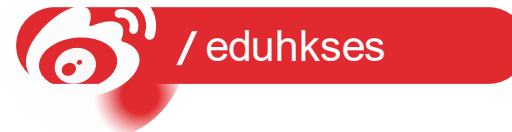
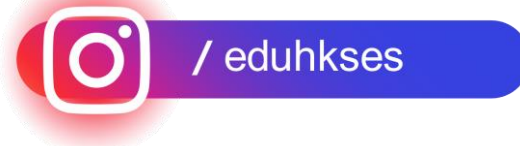
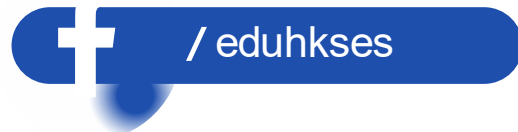


# More Information

Department of Science and Environmental Studies

☎ 2948 7669

✉ dses@eduhk.hk



# Disclaimer

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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.