+ Class of 2016











環境科學課程

School of Life Sciences
The Chinese University of Hong Kong

Environmental Science Programme (established 1994)



香港中文大學 The Chinese University of Hong Kong



The Programme is designed for students interested in environmental science and its applications in strategic planning, policy development, pollution control and waste treatment, biodiversity, conservation, toxicology and environmental health.

We prepare our graduates with a high level of competence in scientific understanding of the environmental issues and a proper handling of the appropriate techniques in addressing these issues.

The graduates are well prepared for employment in relevant government departments, commercial and industrial enterprises, environmental consultancy, green groups, and further studies in environmental science disciplines.

Career Prospects:

Environmental Consultant

Green Groups (NGO)

Government Department Officers, e.g. AFCD, EPD, etc.

Accreditation, e.g. carbon audit, chemical analysis of food or ecological samples, etc.

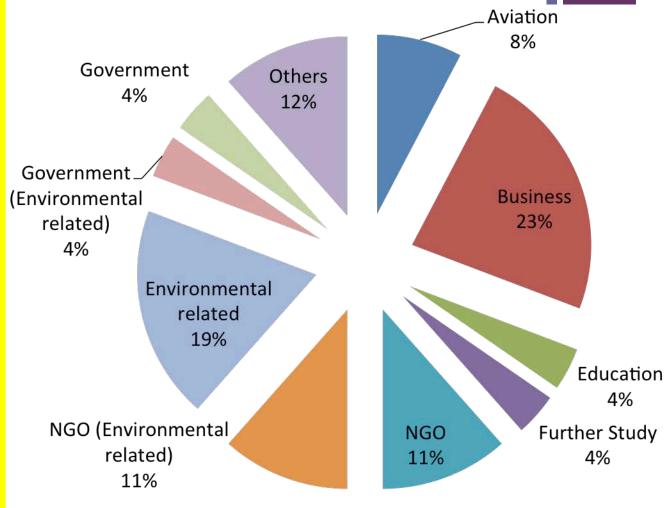
Commercial sectors

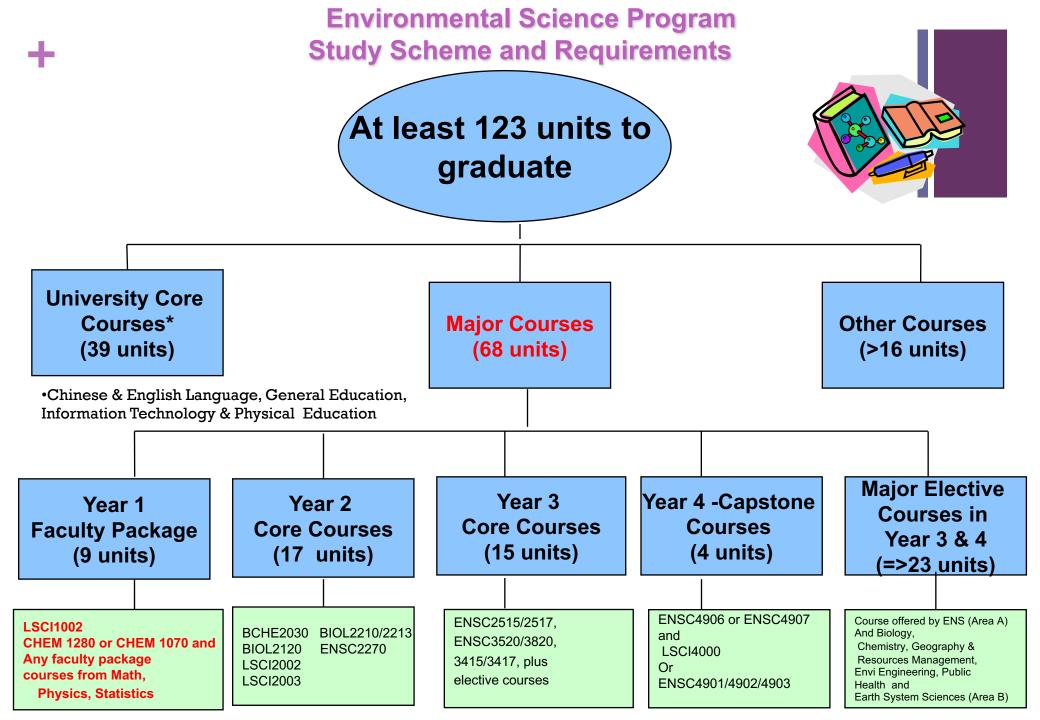




Selected Job Profiles: Mr. Chickee Chow Consultant, Environmental Resources Management (ERM) Ms. Anna Chung Sustainability Development Manager, Mass Transit Railways **Corporation** Miss Carol Kwok Assistant Environmental Health and Safety Manager, Swire Resources Dr. Eric Sze Assistant Professor. **Open University of Hong Kong** Mr. Alfred Tang Senior Compliance Engineer, **Avery Dennsion** 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 WY Yiu Environmental Protection Officer, EPD, HKSAR Government

Career Field of 2013 Full-Time First Degree in Environmental Science Programme







Environmental Science Curriculum Major Units: 66

Students are also encouraged to minor in Geography and Resource Management, Earth System Science, or Public Health.

YEAR ONE (9 units):

- LSCI 1002 Introduction to Biological Sciences
- CHME 1280 Introduction to Organic Chemistry and Biomolecules
- Any one from MAT 1320, PHY 1001, PHY 1002, STA 1012

+ University GE, PE, and language courses



YEAR TWO

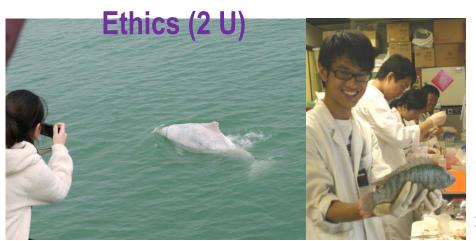
(17 units)

BCHE 2030 Fundamentals of Biochemistry (3 U)

Term ■ BIOL 2120 Cell Biology (3 U)

■ LSCI 2002 Basic Laboratory
Techniques in Life Sciences (2 U)

■ LSCI 2003 Scientific Conduct and





■ ENSC 2270 Introduction to Environmental Science (3 U)

■ BIOL 2210 Ecology (3 U)

■ BIOL 2213 Ecology Lab (1 U)

(10 + 7 units)



+ YEAR THREE (15 units)

- ENSC 2515 Environmental Chemistry (3 U)
- ENSC 2517 Environmental Chemistry Lab (2 U)

- ENSC 3520 Environmental & Biochemical Toxicology (3 U)
- ENSC 3820 Environmental & Biochemical Toxicology Lab (2 U)
- ENSC 3415 Chemical Instrumentation
 Techniques (3 U)
- ENSC 3417 Chemical Instrumentation Technique Lab (2 U)





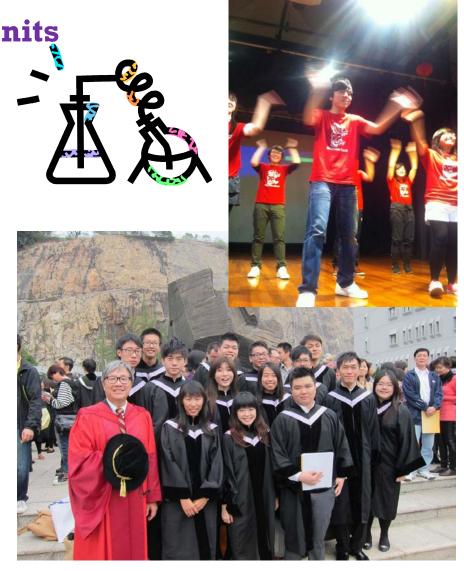
YEAR FOUR

Total major core: 45 units

+ 23 units electives = 68 units

CAPSTONE COURSES = 4 to 6 units

- ENSC4901/4902/4903 Senior Experimental Projects (I/II/III; 2+2+2 U = 6 U) or
- LSCI4000 Senior Literature Research (3 U)(Term 1 or Term 2)
- ENSC4906 Internship (2U) or
- ENSC4907 Field Study (2U)



Major Elective Courses (> 23 units)

AT LEAST 12 units from Group A:

ENSC3230 Principles of Environmental Protection and 3 units

Pollution Control (or GRMD3202)

ENSC4240/4242 Environmental Impact Assessment/Lab 3/2 units

ENSC4250 Environmental Health 3 units

ENSC4310/4510 Methods in Toxicological Research/Lab 3/2 units

ENSC4525 Advanced Environmental Chemistry 3 units

Chemical Treatment Processes 3 units





ENSC4535

AT LEAST 10 UNITS FROM Group B:

BIOL3012 Biodiversity Lab I (2U), 3022 Biodiversity Lab II (2U), 3410 General Microbiology (3U), 3560 Biology of Fungi and Non-Vascular Plants (2U), 3570 Biology of Vascular Plants (2U), 3610 Invertebrate Form and Function (2U), 3620 Vertebrate Life, (2U) 3630 Animal Physiology (3U), 3710 Marine Biology (3U), 4012 Field and Environmental Biology (2U), 4220 Environmental Biotechnology (3U), 4260 Conservation Biology (3U), 4510 Hong Kong Flora and Vegetation (3U);

CHEM4280 Chemistry in Biofuel (2U), 4400 Advanced Analytical Chemistry (2U), 4430 Practices in Testing Laboratory (2U);

ENER3020 Energy Utilization and Human Behaviour (3U),

ESSC3200 Atmospheric Science (3U), 3300 Introduction to Physical Oceanography (3U), 3600 Understanding Our Biosphere (3U), 4400 Hydrology (3U),

GRMD3203 Urban Environmental Problems (3U), 3209 Soil Science (3U), 3323 Urban and Regional Planning (3U) (or 3224 Tourism Planning and Management, 3U), 4202 Hydrology and Water Resources (3U),

4203Ecosystem Restoration and Management (3U), 4204 Environmental Planning and Assessment (3U), 4401 Energy Resources (3U);

PHPC3016 Environment and Health (3U;

STAT3210 Statistical Techniques in Life Sciences (3U)

Revised Bloom's Taxonomy Table

The knowledge dimension	The cognitive process dimension						
	Remember	Understand	Apply	Analyse	Evaluate	Create	
Factual knowledge							
Conceptual knowledge							
Procedural knowledge							
Meta-cognitive knowledge							

Assessments

(Affirmative and Summative with Criteria Referencing):

Assignment,

Term Paper,
Poster and Oral
Presentations,
Group Project,
Final Examination.

http://www.cuhk.edu.hk/sci/OBA/information/information01.html

Suggested Concentrations

Concentration 1:

Environmental Management







Environmental Chemistry



Field Trips and Field Studies



studying pitcher plants



Mount Kinabalu (4095.2 M)

iSeahorse -The new insight of environmental conservation



The Chinese University of Hong Kong **ENSC4907 Field Study**

Tsoi Tak Chi (1155057936)





Danum Valley, Sabah

Field Study to Philippines for seahorse survey (ENSC 4907)

△North-East **New Territories** (NENT) **Landfill Gas Utilisation**





Sha Lo Tung Field Study (EIA Lab)

Site visit at a metal finishing plant





CLP 中電





Hong Kong Wetland Park











GREENPEACE 綠色和平





生態教育及資源中心

Eco-Education & Resources Centre









Scholarships



Chevening Aberdeen Scott Scholarship

http://www2.cuhk.edu.hk/gs s/download/pdf/Scholarship/ Scholarship_20141003_1.pdf



http://www.iso.cuhk.edu.hk/english/publications/newsletter/article.aspx?articleid=61846

College Scholarships and Activity Funds

Exchange Programs

Over 20 students joined exchange programs to the following universities in the last decade.

Australia: ANU, NSW

Canada: UBC, U of T, Waterloo

Denmark: Copenhagen

Finland: Helsinki

Germany: Hannover

Japan: Christian U, Kyoto Sangyo

Mainland: Peking Norway: Bergen

Sweden: Royal Ins. Of Technology

Switzerland: Lausanne

USA: Penn State, Ohio State,

Claremont McKenna



Career Talks e.g. from CIWEM





http://hkiqep.org

HKIQEP 34 TO TA

香港環專會

Our Institutional Partners

We collaborate with environmental professional institutions which share the same vision and goal of raising the standard of the environmental profession in Hong Kong. We work together with them to shape the qualification process for environmental professionals, as well as to mutually support each other in our missions. Our Institutional Partners include:

- Chartered Institution of Water and Environmental Management (CIWEM HK);
- Environmental Management Association of Hong Kong (EMAHK);
- Hong Kong Institute of Acoustics (HKIOA);
- •Hong Kong Institute of Environmental Impact Assessment (HKIEIA); and
- •Hong Kong Institute of Environmental Protection Officers (HKIEPO).

http://hkiqep.org/membership/qualification-process-2016_17/

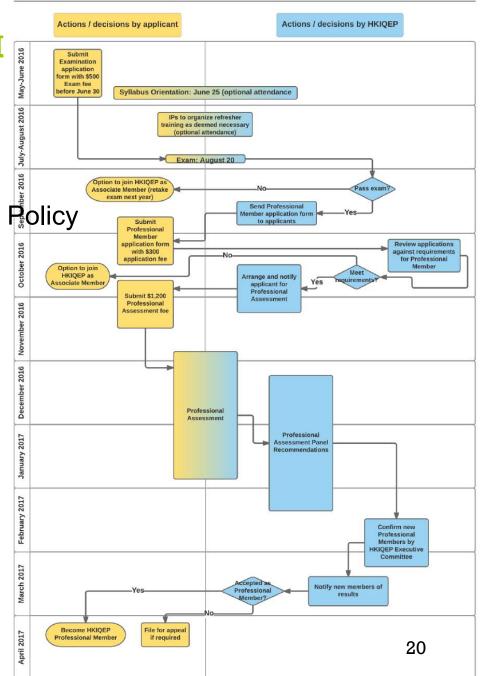
1.Environmental Science, Management & Policy

- 2.Air
- 3.Noise
- 4.Water
- 5.Waste
- 6.EIA (&HA)

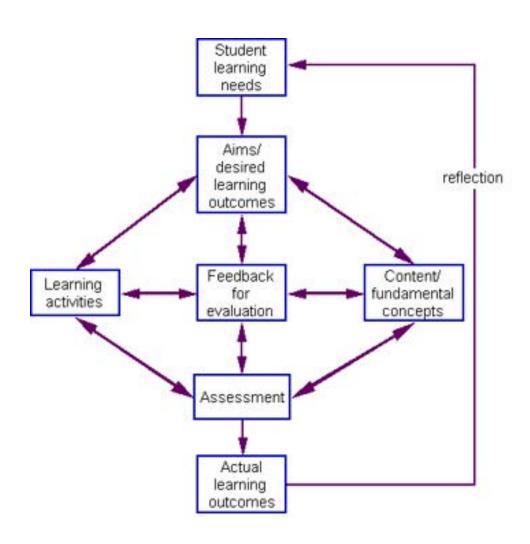
http://hkiqep.org/wpcontent/uploads/2016/04/HKIQEP-Syllabus-Suggested-Materials-21March2016.pdf

KMCHAN, ENS PRC

HKIQEP - QUALIFICATION PROCESS (2016-17)



OBA Practice in CUIIK



Feedbacks:

Curriculum Forum,

Course Teaching Evaluation.

Staff-Student Consultation Committee

Program Committee Meeting

Staff / Contacts

Prof. P O Ang Prof. K M Chan Prof. L M Chu Dr. Apple Chui Prof. S L Lam Prof. H W Luo Prof. H K Lee Prof. Susanna S T Lee Prof. P K Wong Prof. limmy C M Yu	Tel. No. 3943 6133 3943 4420 3943 6378 3943 8026 3943 8126 3943 6121 3943 6331 3943 6383 3943 6383	Room No. MSL SC 184 SC E407 SC E412A SC G58 MSL SC 261 SC 181 SC 263	Email put-ang@cuhk.edu.hk kingchan@cuhk.edu.hk leemanchu@cuhk.edu.hk applepychui@cuhk.edu.hk lams@cuhk.edu.hk haiweiluo@cuhk.edu.hk hklee@cuhk.edu.hk lee2022@cuhk.edu.hk
Prof. Jimmy C M Yu	3943 6268	SC 263	jimyu@cuhk.edu.hk

General Office: SC132, Science Centre, North Block

Contact person : Mr. Patrick Tang

Tel : 3943 6294 Fax : 2603 5646

Email : ens@cuhk.edu.hk

Homepage : http://www.cuhk.edu.hk/ens/



MSL: LFS Marine Lab SC: Science Center

MMW: Mong Man Wai Bldg