+ Class of 2017











環境科學課程

School of Life Sciences The Chinese University of Hong Kong

当家科学学院

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.

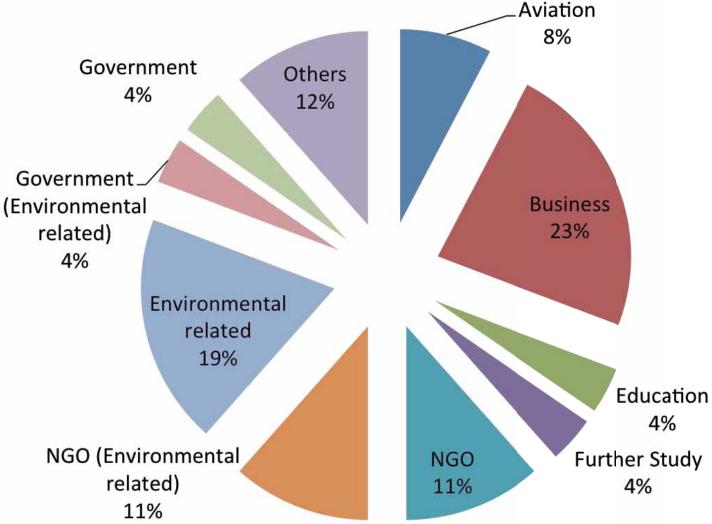
Commercial sectors

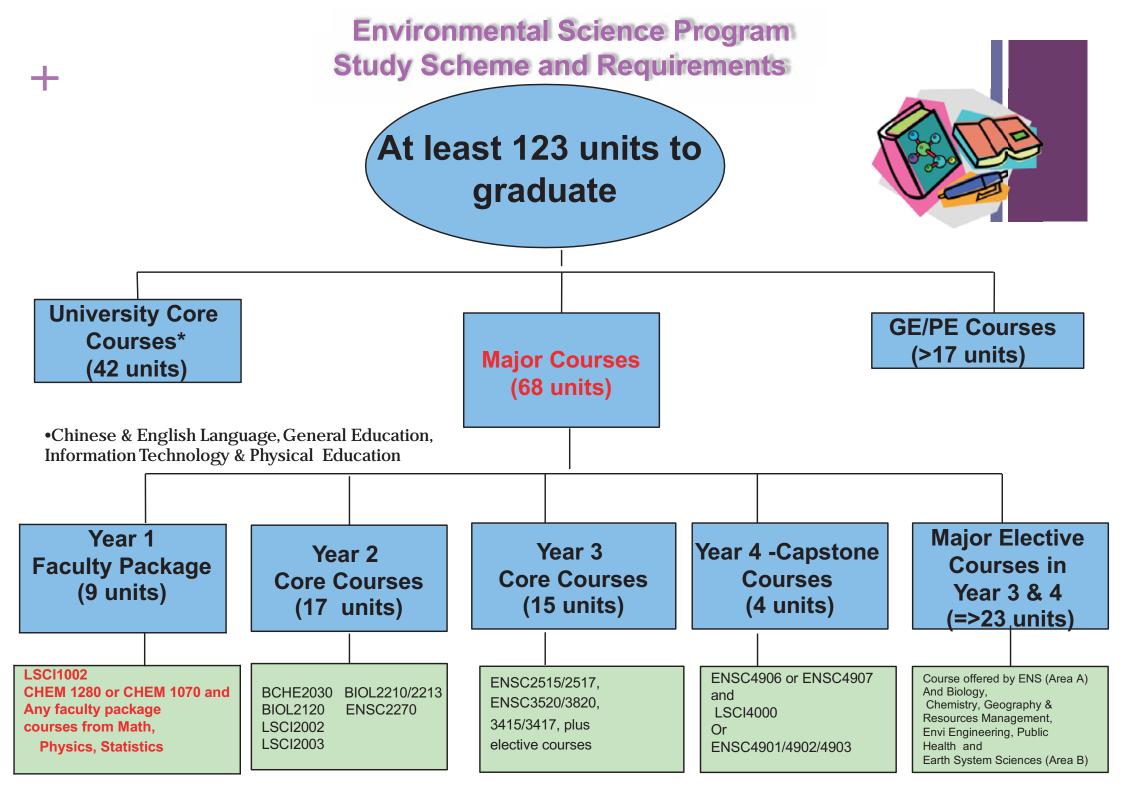




Selected Job Profiles: Mr. Chickee Chow Consultant, Environmental Resources Management (ERM) Ms. Anna Chung Sustainability Development Manager, Mass Transit Railways **Corporation** Miss Carol Kwok Assistant Environmental Health and Safety Manager, Swire Resources Dr. Eric Sze Assistant Professor. Open 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 Dr. Patrick C. WYeung Project Manager, World Wide Fund-Hong Kong **MissWY 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



KMCHAN, ENS PROGRAM, CUHK

+ YEAR TWO

(10 + 7 units)

(17 units)

Term 1

BCHE2030 Fundamentals of Biochemistry (3 U)

BIOL2120 Cell Biology (3 U)

LSCI2002 Basic Laboratory Techniques in Life Sciences (2 U)

LSCI 2003 Scientific Conduct and Ethics (2 U)

ENSC2270 Introduction to Environmental Sci. (3U) Term 2

BIOL2210 Ecology (3U)

BIOL2213 Ecology Lab (1U)







+ YEAR THREE

(5 + 10 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 11 units from Group A:

ENSC3230 Principles of Environmental Protection & Pollution Control (3 units)(or GRMD3230)

ENSC4240/4242 Environmental Impact Assessment/Lab (3 + 2 units)

ENSC4250/4252 Environmental Health (3 units)

ENSC4310/4510 Methods in Toxicological Research/Lab (3 + 2 units)

ENSC4525 Advanced Environmental Chemistry (3 units)

ENSC4535 Chemical Treatment Processes (3 units)





Group B: Courses Offered by other Programmes

BIOL3012/3022 Biodiversity Laboratory I (2 units)/ II (2 units)

BIOL3410 General Microbiology (3 units)

BIOL3560 Biology of Fungi and Non-Vascular Plant (2 units)

BIOL3570 Biology of Vascular Plants (2 units)

BIOL3610 Invertebrate Form and Function (2 units)

BIOL3620 Vertebrate Life (2 units)

BIOL3710 Marine Biology (3 units)

BIOL4012 Field and Environmental Biology (2 units)

BIOL4220 Environmental Biotechnology (3 units)

BIOL4260 Conservation Biology (3 units)

BIOL4510 Hong Kong Flora & Vegetation (3 units)

CHME4280 Chemistry in Biofuel (2 units)

CHME4400 Advanced Analytical Chemistry (2 units)

CHME4430 Practices in Testing Laboratory (2 units)

CHME4440 Food Testing and Environmental Analysis (2 units)

ENER3020 Energy Utilization and Human Behaviour (2 units)

ESSC3200 Atmospheric Science (3 units)

ESSC3300 Introduction to Physical Oceanography (3 units)

ESSC3600 Understanding Our Biosphere (3 units)

ESSC4400 Hydrology (3 units)

GRMD3202 Environmental Management (3 units)

GRMD3203 Urban Environmental Problems (3 units)

GRMD3323 Urban and Regional Planning (3 units)

GRMD3403 Methods for Resource Evaluation and Planning (3 units)

GRMD4202 Hydrology and Water Resources (3 units)

GRMD4203 Ecosystem Restoration and Management (3 units)

GRMD4204 Environmental Planning and Assessment (3 units)

GRMD4401 Energy Resources (3 units)

LAWS4310 The Environment and the Laws (3 units)

PHPC3016 Environment and Health (3 units)

STAT3210 Statistical Techniques in Life Sciences (3 units)

URSP3300 Sustainable Urban Transport (3 units)

URSP4100 Urban Planning Practise and Theory (3 units)

9/13/17

Bloom's Taxonomy Table

The knowledge	The cognitive process dimension					Assessments
dimension	Remember	Understand	Apply	Analyse	Evaluate	Create
Factual knowledge						(Affirmative and Summative with Criteria Referencing):
Conceptual knowledge						Assignment,
Procedural knowledge						Term Paper, Poster and Oral Presentations,
Meta-cognitive knowledge						Group Project, Final Examination.

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

Suggested Concentrations

Concentration 1:

Environmental Management



Concentration 2:

Environmental Chemistry





Field Trips and Field Studies



AT LUAR LEMBAH DANUM

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)





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





LINTERNSE

CLP 中電









香港特別行政區政府 漁農自然護理署









Hong Kong

Dolphin Conservation Society

港海豚



生態教育及資源中心

Eco-Education & Resources Centre







KMCHAN, ENS PROGRAM, CUHK



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

KI()FP

Environmental Integrity & Excellence

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:

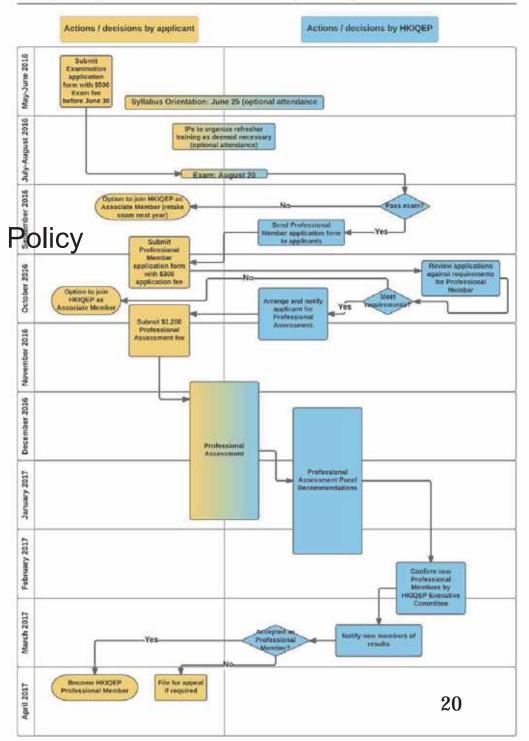
- Chartered Institution of Water and Environmental Management (CIWEM HK);
- Environmental Management Association of Hong Kong (EMAHK);
- Hong Kong Institute of Acoustics (HKIOA);
- •Hong Kong Institute of Environmental Impact Assessment (HKIEIA); and
- •Hong Kong Institute of Environmental Protection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

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

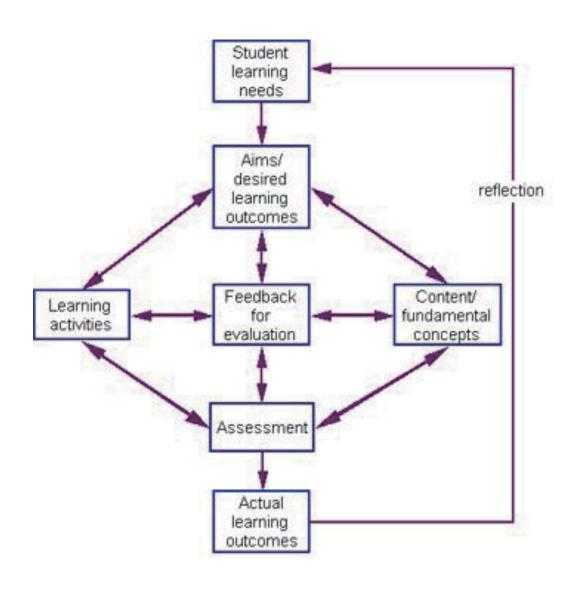
1. Environmental Science, Management & Policy

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

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



OBA Practice in CUHK



Feedbacks:

Curriculum Forum,

Course Teaching Evaluation.

Staff-Student Consultation Committee

Program Committee Meeting

Staff / Contacts

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MMW: Mong Man Wai Bldg MSL: LFS Marine Lab SC: Science Center

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