

## **Postgraduate Diploma (PGD) and Master of Science (MSc) Programs in Environmental Science and Management**

### **Program Director:**

Arthur P. S. LAU, Adjunct Associate Professor of Environment

The Postgraduate Diploma (PGD) and Master of Science (MSc) programs in Environmental Science and Management are unique programs that provide professional training for graduates to prepare themselves to tackle the rapidly developing environmental issues in Hong Kong and the surrounding region. This multi-disciplinary program is unique because in addition to taking advanced environmental science and management courses, students will also have the opportunity to take up to three engineering electives to help broaden their environmental capabilities. The program will strengthen the students' undergraduate background in important environmental concepts and enhance their ability to apply these environmental concepts to local, regional and global environmental problems. The PGD program will provide flexibility to students who are unable to commit the time and financial resources required by the MSc program.

### ***Program Learning Outcomes***

On successful completion of the program, graduates will be able to:

- Explain and provide possible solutions to local and global environmental problems with their social and economic contexts using advanced scientific and management knowledge and concepts;
- Evaluate environmental impacts with scientific and evidence-based approaches;
- Analyze contemporary and emerging environmental issues from different disciplinary and stakeholder perspectives;
- Appropriately communicate an environmental agenda to different stakeholders; and
- Develop strategies and solutions to promote sustainability in government, business or educational sectors.

### ***Admission Requirements***

Applicants must possess a bachelor's degree with second class honors or higher, or an equivalent qualification.

### ***Program Duration***

MSc program:

- 1 - 1.5 years for full-time mode; or
- 2.5 years for part-time mode.

PGD program:

- 1 year for full-time mode; or
- 1.5 years for part-time mode.

### ***Program Fees***

The nominal program fees for the PGD and MSc programs are HK\$55,000 (15 credits) and HK\$110,000 (30 credits), respectively. Any additional credits are not covered by the fees described above. New students admitted with credit transfer are also required to pay the full program fee.

### ***Curriculum***

#### **MSc Degree**

MSc students are required to complete 30 credits of coursework following one of the combinations of course credits below:

	<i>Foundation course credits*</i>	<i>Elective course credits</i>	<i>Project course credits</i>
Coursework only	12	18	-
Coursework plus project	12	12 or 15	3 or 6

Students are required to take a minimum of three Environmental Science courses and three Environmental Management courses. At least two Environmental Science courses and two Environmental Management courses must be chosen from the Foundation Course List. The remaining one Environmental Science course and one Environmental Management course can be from either the Foundation Course List or Elective Course List.

#### **Postgraduate Diploma**

PGD students are required to complete 15 credits of coursework, with 6 credits of foundation courses and 9 credits of elective courses. They cannot take the project course EVSM 6950. Surplus foundation course credits will be counted toward the elective requirement.

Students are required to take a minimum of two Environmental Science courses and two Environmental Management courses. At least one Environmental Science course and one Environmental Management course must be chosen from the Foundation Course List. The remaining Environmental Science and Environmental Management courses can be from either the Foundation Course List or Elective Course List.

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\* *Surplus foundation course credits will be counted toward the elective requirement.*

Foundation Course List

*Environmental Management courses:*

- ENVR 5260 Environmental Policy and Management
- EVSM 5230 Environmental Health and Management
- EVSM 6070 Environmental Impact Assessment

*Environmental Science courses:*

- ENVR 5210 Environmental Microbiology
- EVSM 5220 Advanced Environmental Chemistry
- EVSM 5240 GIS for Environmental Professionals

Elective Course List

*Environmental Management courses:*

- ENVR 5250 Environmental Economics and Management
- ENVR 6040 Special Topics in Environment
- EVSM 5270 Environmental Law
- SOSC 5620 Sustainable Development; or  
ENVR 6060 Sustainability Economics
- JEVE 5900 Carbon Management for Sustainable Environment

*Environmental Science courses:*

- ENVR 6050 Introduction to Oceanography
- ENVS 5113 Marine Ecotoxicology
- EVSM 5280 Introduction to Atmospheric Aerosols
- MATH 5360 Weather, Climate and Pollution

*Others:*

- ENVR 6100 Independent Study
- EVSM 6950 MSc Project
- JEVE 5260 Air Pollution Meteorology
- JEVE 5320 Water Quality and Assessment
- JEVE 5420 Biological Waste Treatment and Management
- JEVE 5460 Design and Management of Physico/Chemical Processes of Environmental Engineering

Out-of-curriculum course – A maximum of two postgraduate courses outside the above list of courses may be taken as elective(s) subject to the approval of the Program Director.

***Credit Transfer***

Upon the approval of the Program Director, a maximum of 9 credits can be transferred from other institutions to the MSc program, whereas a maximum of 6 credits can be transferred from other institutions to the PGD program.

***Program Transfer***

Students admitted to the PGD program may subsequently apply for transfer to the MSc program subject to the approval of the Program Director, and vice versa. Students must apply for the program transfer at least one regular term prior to the completion of the PGD program.

***Graduation Requirements***

Students must complete the program with a graduation grade average (GGA) of 2.850 or above as required of all postgraduate students at the University.