

Master of Science (MSc) Program in Environmental Health and Safety

Program Director:

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The Master of Science (MSc) program in Environmental Health and Safety is a multidisciplinary program designed to provide springboard training to the current and prospective environmental professionals. Over the past decades, there have been increasing concerns about the impacts of anthropogenic activities on the safety and health of our living environment. Graduates of this MSc program can advance their careers in relevant government and private sectors.

This MSc program differs from other environment-related MSc programs in Hong Kong by focusing on the health and safety issues of environmental problems. Students will view environmental health and safety as an integral component of health protection and improvement. The curriculum will include the scientific, technical, legal and social issues that underpin environmental health practices, food safety, hazards and risks assessment, and occupational health and safety.

Program Learning Outcomes

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

- Apply advanced knowledge from a variety of environmental/health related science disciplines to view environmental health in an integrated approach to improve health protection;
- Evaluate the impact of environmental stress on the health and safety of nature (ecosystems), as well as on the physical health and social well-being of humans;
- Analyze contemporary environmental health and safety issues in a local and regional context; and
- Apply and develop strategies and solutions to tackle environmental problems.

Admission Requirements

Applicants should possess a bachelor's degree in Life Science, Chemistry, Environmental Science, or a related area with second-class honors or higher from a recognized institution. They should have a proven record of good academic performance, be proficient in English and must demonstrate strong interest in environmental health and safety issues.

Program Duration

The normal period for completing the program is 12 months in full-time mode and 24 months in part-time mode. The courses will be conducted on weekday evenings/Saturdays at HKUST.

Program Fee

The program fee is HK\$110,000 for 30 credits. Students who take additional course(s) or need to retake any courses are required to pay HK\$3,666 for each additional credit.

Curriculum

Students are required to complete at least 30 credits of coursework, with 18 credits of foundation courses and 12 credits of elective courses.

a) Foundation courses (18 credits)

ENVS	5111	Environmental Health and Safety
ENVS	5113	Marine Ecotoxicology
ENVS	5114	Environmental Diseases and Microbiology
ENVS	5115	Food Safety Control
ENVS	5116	Case Studies in Environmental Risk Assessment
ENVS	5117	Pharmacology, Toxicology and Health

b) Elective courses (12 credits)

ENVS	5112	Environmental Hazards Identification
ENVS	5118	Conservation and Sustainable Development
ENVS	5119	Pollution Monitoring and Control
ENVS	5120	Occupational Health and Safety
ENVS	6111*	Environmental Health Research Project
EVSM	5220	Advanced Environmental Chemistry
EVSM	5230	Environmental Health and Management
EVSM	5270	Environmental Law
JEVE	5320	Water Quality and Assessment
JEVE	5420	Biological Waste Treatment and Management

Part-time students may take a maximum of 9 credits in each term.

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.

* *ENVS 6111 may be repeated for a maximum of 6 credits.*