

Master of Science in Occupational Hygiene (Full-time and Part-time)

Programme Director and Deputy Director

Programme Director: **Professor Ignatius Tak-sun YU**

Deputy Director: **Professor Tze-wai WONG**

Background

Department of Community and Family Medicine started the Diploma in Occupational Hygiene in 1985. This was upgraded to Postgraduate Diploma programme under the Graduate School in 2004. And, Master of Science in Occupational Hygiene was started in 2007 by the School of Public Health.

The importance of occupational health to the Hong Kong community is becoming increasingly recognised. Hygienists and safety officers need to protect and promote the health and welfare of Hong Kong's greatest asset – its workforce. With the rapid social and economic changes in Hong Kong, occupational hygiene has evolved beyond the factory environment to include all occupations, with its focus expanding from physical, chemical, and biological hazards to encompass psychological, behavioural, ergonomic, and management aspects.

Master of Science in Occupational Hygiene programme combines the current Postgraduate Diploma in Occupational Hygiene course with additional modules (Epidemiology in Occupational Health, Biostatistics in Occupational Health, and Advanced Occupational Hygiene) and a thesis. All in all, this provides a much-needed teaching programme that forms an essential component in the training of professional occupational hygienists in Hong Kong and China.

Starting in September 2009, the programme will also be offered in the full-time study mode, with blocks of several weeks of full-time study spread through the year.

Why Study Here

We provide the only taught Master of Science programme, in Hong Kong and in neighbouring regions, which are dedicated to occupational hygiene. The programme emphasise classroom teaching as well as practical exposure and experience, which are necessary for acquiring the relevant competencies in the profession. With small class sizes, we encourage direct interactions between participants and teachers.

Who Should Apply

The target candidates are occupational health and safety professionals who are committed to protecting and promoting the health and welfare of employees.

Aims and Features

The aim of programme is to provide advanced training for occupational health and safety professionals who want to specialise in the practice of occupational hygiene. Graduates of the programme will have acquired the necessary competencies to practise in the occupational health facilities of the government, other public institutions, and in the community.

Programme Structure

A total of at least 36 credit units must be accumulated from the programme. The MSc programme is designed to foster the essential knowledge, skills, and attitudes in occupational hygiene practice through a mixture of lectures, practical work, tutorials, seminars, and research. It is comprised of the following independent but related courses.

The modules:-

	Code	Title	Units
Year 1	PBH7301-OHS5001	Fundamentals of Occupational Health	3
	PBH7321-OHY5002	Principles and Practice of Occupational Hygiene	6
	PBH7322-OHY5003	Practical and Project Work in Occupational Hygiene	6
	OHY5004	Epidemiology in Occupational Health	3
	OHY5005	Biostatistics in Occupational Health	3
	Subtotal		
Year 2	OHY6001	Advanced Occupational Hygiene	6
	OHY6002	Protocol Development	2
	OHY6003	Project Work and Report	7
	Subtotal		
TOTAL UNITS			36

Core Courses:-

PBH7301-OHS5001 Fundamentals of Occupational Health (3 Units)

A basic course for students intending to study any discipline of the occupational health sciences. General basic principles in the practice of occupational health and hygiene will be introduced. Other topics include applied toxicology, physical hazards, chemical hazards, biological hazards, ergonomics, and occupational psychology.

PBH7321-OHY5002 Principles and Practice of Occupational Hygiene (6 Units)

This is the follow-up to course PBH7301-OHS5001, for students who want to specialise in the discipline of occupational hygiene. A systematic approach to the anticipation, recognition, evaluation, and control of occupational hazards will be introduced, and practical experience with instrumentation in the assessment of the working environment will be emphasised.

Prerequisite: PBH7301-OHS5001 Fundamentals of Occupational Health

PBH7322-OHY5003 Practical and Project Work in Occupational Hygiene (6 Units)

Each student is required to complete a number of practical and project assignments related to the practice of occupational hygiene. The assignments include workplace health hazard evaluations, field practices, and their associated reports, as well as a project related to occupational hygiene. Students will need to demonstrate competency in utilising the knowledge and skills acquired during the diploma programme. Presentations in class and written reports will be required for the assessment of performance in this module.

OHY5004 Epidemiology in Occupational Health (3 Units)

This course is designed to introduce essential methods in epidemiology, as applied to occupational hygiene practice and research. The topics will include risk estimation, surveys and sampling, cross-sectional studies, case-control studies, cohort studies, clinical trials, and evidence-based medicine.

OHY5005 Biostatistics in Occupational Health (3 Units)

Basic biostatistics methods, which are essential to the practice of occupational hygiene and simple research, will be taught. The topics will include the nature of variables, descriptive statistics, comparisons between and among groups, common parametric and non-parametric methods, correlations, and regressions. The use of common statistical software will be introduced.

OHY6001 Advanced Occupational Hygiene (6 Units)

This course emphasises the application, in practice, of knowledge and skills acquired during the basic course. Visits and attachments to various service units will be arranged. Case discussions, practice audits, and problem-solving exercises will be employed, and there will be frequent interactions with the instructors.

OHY6002 Protocol Development (2 Units)

This is a practical course that develops students' techniques in protocol writing, leading ultimately to the conduction of their research project and the write-up of their thesis. It will involve the application and synthesis of knowledge acquired in the other courses.

OHY6003 Project Work and Report (7 Units)

Each student is required to complete an individual project on occupational hygiene under the direction of a supervisor, utilising knowledge and skills acquired during the programme. Students will be required to make regular presentations on the progress of their projects throughout the course, and to submit a thesis at the end of the programme.

Teaching Format

The teaching format will include lectures, tutorials, project work, literature reviews, critical appraisals, and visits. The medium of instruction is English.

Teaching Faculty

External specialist lecturers will be invited as required to complement existing expertise within the Department of Community and Family Medicine. These lecturers will be from departments of the Faculty of Medicine at the CUHK, as well as other faculties. Experts from the Department of Health, the Labour Department, and other tertiary institutions will also be invited to join the teaching faculty.

Duration / Modes of Study / Tuition Fees

Duration	Mode of Study	Tuition Fees
20 months	Full-time	HK\$100,800
2 years	Part-time	HK\$100,800

Course and Unit Exemptions

Graduates from the Postgraduate Diploma in Occupational Hygiene programme at the School of Public Health, who want to undertake further studies through the Master of Science in Occupational Hygiene, may apply for unit exemptions. Graduates from other postgraduate programmes at the School, who also wish to enter the Master's programme, may apply for unit exemptions as well.

Graduate Requirements

Student performance is assessed on a course-by-course basis. Students are required to attend at least 80% of the lectures, seminars, tutorials, and practical sessions, and obtain a 'satisfactory pass' in the assessment of each module, with a cumulative overall GPA of at least 2.0.

In addition, students have to comply with the requirements of proficiency in information technology (IT) before they can be awarded the Master of Occupational Medicine, as stipulated by the Graduate School.

How to Apply

Admission requirements:-

Applicants are required to hold a Bachelor's degree in science, engineering, or an approved health-related field. The degree should be awarded by a local university, or by an overseas university of acceptable standing and where English is the medium of instruction. In the case of candidates from non-English universities, the Graduate School's English language requirements for admission will apply.

Admission procedures:-

- By completing the online request form in the Graduate School website (<http://www2.cuhk.edu.hk/gss/>);
- In person from the Graduate School Secretariat, 4/F, Academic Building No.1, The

Chinese University of Hong Kong, Shatin, New Territories, Hong Kong or from Mr. C.C. Lee, Room 420, 4/F, School of Public Health, Prince of Wales Hospital, Shatin, New Territories, Hong Kong; or

- By sending a stamped (HK\$8.20), self-addressed envelope (A4 size) to the Programme Administrator.

Completed application form should reach the School of Public Health, Prince of Wales Hospital, Shatin, New Territories, Hong Kong by the end of March of each academic year. Applicants are encouraged to use online application procedures to save time and postage. Please visit the Graduate School website at <http://www2.cuhk.edu.hk/gss/>.

Application deadline:-

March 31, 2009

Administrative Staff

Programme Administrator	Telephone No.	E-mail Address
Mr. C.C. Lee	2252 8817	cclee@cuhk.edu.hk

Postgraduate Diploma in Occupational Hygiene (Full-time and Part-time)

Programme Director and Deputy Director

Programme Director: **Professor Ignatius Tak-sun YU**

Deputy Director: **Professor Shelly Lap-ah TSE**

Background

The Diploma of Occupational Hygiene programme was started in 1985 by the Department of Community and Family Medicine. This was upgraded to Postgraduate Diploma programmes under the Graduate School of the Chinese University of Hong Kong in 2004.

The importance of occupational health to the Hong Kong community is becoming increasingly recognised. Hygienists and safety officers need to protect and promote the health and welfare of Hong Kong's greatest asset – its workforce. With the rapid social and economic changes in Hong Kong, occupational hygiene has evolved beyond the factory environment to include all occupations, with its focus expanding from physical, chemical, and biological hazards to encompass psychological, behavioural, ergonomic, and management aspects.

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Who Should Apply

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Aims and Features

The aim of programme is to provide advanced training for occupational health and safety professionals who want to specialise in the practice of occupational hygiene. Graduates

of the programme will have acquired the necessary competencies to practise in the occupational health facilities of the government, other public institutions, and in the community.

Programme Structure

The programme comprises 120 teaching hours and 40 hours for the completion of practical coursework. The satisfactory completion of the course (which includes completing the practical coursework and passing the assessment tests at the end of each module) counts towards 160 credit hours (15 Units).

The modules:-

	Code	Title	Units
Year 1	PBH7301-OHS5001	Fundamentals of Occupational Health	3
	PBH7321-OHY5002	Principles and Practice of Occupational Hygiene	6
	PBH7322-OHY5003	Practical and Project Work in Occupational Hygiene	6
TOTAL UNITS			15

Core Courses:-

PBH7301-OHS5001 Fundamentals of Occupational Health (3 Units)

A basic course for students intending to study any discipline of the occupational health sciences. General basic principles in the practice of occupational health and hygiene will be introduced. Other topics include applied toxicology, physical hazards, chemical hazards, biological hazards, ergonomics, and occupational psychology.

PBH7321-OHY5002 Principles and Practice of Occupational Hygiene (6 Units)

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Prerequisite: PBH7301-OHS5001 Fundamentals of Occupational Health

PBH7322-OHY5003 Practical and Project Work in Occupational Hygiene (6 Units)

Each student is required to complete a number of practical and project assignments related to the practice of occupational hygiene. The assignments include workplace health hazard evaluations, field practices, and their associated reports, as well as a project related to occupational hygiene. Students will need to demonstrate competency in utilising the knowledge and skills acquired during the diploma programme. Presentations in class and written reports will be required for the assessment of performance in this module.

Teaching Format

The teaching format will include lectures, tutorials, project work, literature reviews, critical appraisals, and visits. The medium of instruction is English.

Teaching Faculty

External specialist lecturers will be invited as required to complement existing expertise within the Department of Community and Family Medicine. These lecturers will be from departments of the Faculty of Medicine at the CUHK, as well as other faculties. Experts from the Department of Health, the Labour Department, and other tertiary institutions will also be invited to join the teaching faculty.

Duration / Modes of Study / Tuition Fees

Duration	Mode of Study	Tuition Fees
9 months	Full-time	HK\$39,000
1 year	Part-time	HK\$39,000

Course and Unit Exemptions

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Graduation Requirements

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- In person from the Graduate School Secretariat, 4/F, Academic Building No.1, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong or from Mr. C.C. Lee, Room 420, 4/F, School of Public Health, Prince of Wales Hospital, Shatin, New Territories, Hong Kong; or
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