

## Master of Philosophy (MPhil) Program in Atmospheric Environmental Modeling

The Master of Philosophy (MPhil) program in Atmospheric Environmental Modeling is offered under the HKUST Fok Ying Tung Graduate School, in conjunction with various departments of the School of Science. It focuses specifically on atmospheric environmental modeling with emphasis on atmospheric study of the Pearl River Delta.

Students enrolled in this program are required to complete coursework and conduct research leading to the writing and defense of an MPhil thesis.

### Program Requirements

#### **Credits**

1. Students are required to complete at least 12 credits of PG courses, of which 9 credits must be selected from the following core curriculum:

- a) 6 credits from the following two core courses:

CHEM	5410	Atmospheric Chemistry
MATH	5360	Weather, Climate and Pollution

- b) 3 credits to be selected from the following Environmental Science electives:

CHEM	5440	Bioanalytical Chemistry
ENVR	6020	Special Topics in Atmospheric Environmental Science
ENVR	6030	Special Topics in Marine Environmental Science
ENVR	6050	Introduction to Oceanography
ENVR	6080	Dynamics of Marine Ecosystems
EVSM	6070	Environmental Impact Assessment
ISOM	5530	Multivariate Data Analysis
MATH	5350	Computational Fluid Dynamics for Inviscid Flows
MATH	5460	Time Series Analysis
MATH	5351	Mathematical Methods in Science and Engineering I
MECH	5210	Fluid Dynamics
MECH	5260	Air Pollution Meteorology

2. Students are required to complete 3 credits of extra-disciplinary common course(s). These are 5000-level courses designed and offered by the HKUST Fok Ying Tung Graduate School.

#### **Postgraduate Seminar**

3. Students are required to attend ENVR 6010 Postgraduate Seminar for one term, when they are studying in the Clear Water Bay campus.

4. Students should register an attendance rate of at least 50% in one Nansha Campus Seminar Series when they are studying in Nansha campus.
5. Students are required to make presentation at least once in a seminar in the Nansha Campus Seminar Series.

***Language Requirements***

6. Students are required to take and pass LANG 5001 Postgraduate English for Academic Purposes. The one credit earned from LANG 5001 cannot be counted toward the credit requirements.

***MPhil Thesis***

7. FYTG 6990 MPhil Thesis Research
8. Presentation and oral defense of the MPhil thesis.