Catalog of Postgraduate Programs and Curricula

Curriculum for MPhil(ATM)
(For students admitted in 2010-11)

Program Requirements for Master of Philosophy (MPhil) Program in Atmospheric Environmental Modeling

Credits

1. To complete **at least 12 credits** of PG courses, of which 9 credits must be selected from the following core curriculum:

    (i)   Core courses (6 credits):

MATH	560	*Weather, Climate and Pollution*; and
CHEM	541	*Atmospheric Chemistry*

    (ii) Environmental Science Electives (3 credits):

CHEM	544	*Bioanalytical Chemistry*
ENVR	602	*Special Topics in Atmospheric Environmental Science*
ENVR	603	*Special Topics in Marine Environmental Science*
ENVR	605	*Introduction to Oceanography*
ENVR	608	*Dynamics of Marine Ecosystems*
EVSM	607	*Environmental Impact Assessment*
ISOM	553	*Multivariate Data Analysis*
MATH	535	*Computational Fluid Dynamics for Inviscid Flows*
MATH	546	*Time Series Analysis*
MATH	551	*Mathematical Methods in Science and Engineering I*
MATH	685O	*Topics in Applied Mathematics:* *Numerical Ocean Circulation Modeling*
MECH	521	*Fluid Dynamics*
MECH	526	*Air Pollution Meteorology*

2. Students are required to complete 3 credits of extra-disciplinary common course(s) at 500-level designed and offered by the HKUST Fok Ying Tung Graduate School.

Postgraduate Seminar

1. To attend ENVR 601 *Postgraduate Seminar* for 1 semester, during the time when they are studying in the Clear Water Bay campus.

2. To register an attendance rate of at least 50% in one Nansha Campus Seminar Series when they are stationed in Nansha.

3. To make presentation at least once in a seminar in the Nansha Campus Seminar Series.

Language Requirements

To pass LANG 501 *Postgraduate English for Academic Purposes*.

The 1 credit earned from LANG 501 cannot be counted toward the credit requirements.

Research and MPhil Thesis Examination

1. To conduct research and enroll in FYTG 699 *MPhil Thesis Research*; and

2. To defend the MPhil thesis successfully.