Catalog of Postgraduate Programs and Curricula

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

Program Requirements for Master of Philosophy (MPhil) Program in Mathematics

Credits

1. To complete **24 credits** in Mathematics or related fields, normally at least 18 credits of which are mathematics courses at PG level.

2. Students with a first degree in an area other than mathematics may be required to take additional courses.

Postgraduate Seminar

All full-time students are required to take and pass MATH 600 *Mathematics Seminar* in their first 4 semesters of studies.   Maximum number of credits to be earned from this course is 4.

MPhil Thesis and Thesis Examination

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

2. To defend the MPhil thesis successfully.

Concentration

In addition to the existing program requirements, students who opt for the **Scientific Computation concentration** are required to:

-   Complete MATH 6915 (1-credit), which cannot be counted toward the credit requirements;

-   Complete one computation related course from the list below as a part of the 24 credits of required coursework:

MATH	5311	*Advanced Numerical Methods I*
MATH	5312	*Advanced Numerical Methods II*
MATH	5350	*Computational Fluid Dynamics for Inviscid Flows*
MATH	5360	*Weather, Climate and Pollution*
CHEM	5210	*Computational Chemistry*
PHYS	5410	*Numerical Modeling in Physics*

-   Conduct research in the area of scientific computation; and

-   Give a one-hour seminar on the related research within their first four regular terms of study.