

Catalog of Postgraduate Programs and Curricula

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

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

Credits

1. To complete **6 credits** of coursework from the following course list, of which no more than 3 credits can be taken from 300-level UG courses:

BISC 319	<i>Advanced Cell Biology</i>
BISC 338	<i>Pharmacology and Toxicology</i>
BISC 354	<i>Structure and Function of Proteins</i>
BISC 358	<i>Bioinformatics</i>
BISC 362	<i>Advanced Biological Chemistry</i>
BISC 363	<i>Advanced Topics in Biotechnology</i>
BISC 376	<i>Biochemistry of Diseases</i>
BISC 395	<i>Neurochemistry</i>
BISC 507	<i>Workshops in Bioscience</i>
BISC 512	<i>Advanced Topics in Biophysical Chemistry</i>
BISC 524	<i>Molecular and Developmental Neurobiology</i>
BISC 526	<i>Biochemical and Molecular Basis of Diseases</i>
BISC 538	<i>Cell Cycle Control</i>
BISC 571	<i>Cellular Regulation</i>
BISC 613	<i>Scientific Writing in Biology</i>
BISC 617	<i>Special Topics in Molecular Biology</i>
BISC 627	<i>Advanced Topics in Biochemistry</i>
BISC 666	<i>Molecular Medicine</i>

2. Students with a first degree in an area not directly related to biological science may be required to take additional courses.

Postgraduate Seminar

To attend seminars organized in each semester and present seminars as required:

BICH 601	<i>Biochemistry Seminar I; and</i>
BICH 602	<i>Biochemistry Seminar II</i>

Research and MPhil Thesis Examination

1. To conduct research and enroll in BICH 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 Molecular Medicine concentration are required to:

1. Complete **6 credits** of coursework, including:

BISC 666 *Molecular Medicine*

AND **at least 3 credits** of coursework from the following course list:

BISC 319 *Advanced Cell Biology*
BISC 338 *Pharmacology and Toxicology*
BISC 354 *Structure and Function of Proteins*
BISC 358 *Bioinformatics*
BISC 362 *Advanced Biological Chemistry*
BISC 363 *Advanced Topics in Biotechnology*
BISC 376 *Biochemistry of Diseases*
BISC 395 *Neurochemistry*
BISC 512 *Advanced Topics in Biophysical Chemistry*
BISC 524 *Molecular and Developmental Neurobiology*
BISC 526 *Biochemical and Molecular Basis of Diseases*
BISC 571 *Cellular Regulation*
BISC 627 *Advanced Topics in Biochemistry*

2. Conduct research in the area of molecular medicine.