



## Division of Biochemistry

Biochemistry occupies a central place in modern molecular life sciences. Our programme mission in education is to train and educate postgraduate students to meet the challenges of leadership in all areas of the life sciences. The Department of Biochemistry is well-equipped for research and we offer MPhil-PhD studies.

### MPhil-PhD in Biochemistry

Code: BCH

#### Programme

##### MPhil Stream

Students are required to complete a minimum of 44 units for graduation, including a minimum of 12 units of lecture courses, 24 units of thesis research courses and 8 units of seminar courses.

##### PhD Stream

Students are required to complete a minimum of 84 units for graduation, including a minimum of 12 units of lecture courses, 60 units of thesis research courses and 12 units of seminar courses. Student must pass the candidacy examination within 24 months from first entry.

Please visit the Division's homepage for more information.

#### Fields of Specialization

- Cancer, Cell Biology, Immunology and Microbiology
- Protein Science and Molecular Biology
- Neurosciences and Endocrinology
- Food Sciences and Chinese Medicine

#### Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School<sup>1</sup>, and should have a degree in Biochemistry, Biology, Chemistry or related fields. Applicants may also be required to demonstrate a clear understanding of the basic principles of biochemistry. All applicants must also fulfill the "English Language Proficiency Requirement" as stipulated by the Graduate School before being considered for admission.

#### Additional Application Information

MPhil applicants should submit a research proposal and a copy of undergraduate term paper or a representative research paper. PhD applicants should submit a research proposal and a copy of Master's thesis abstract or a representative research paper. In addition, applicants are required to attend an interview.

Admission Advisor : Prof. S.K. KONG

Application Deadline : 28 February 2010

#### Contact Methods

Address : Division of Biochemistry  
Room 601 Mong Man Wai Building,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel : 3163-4045

Fax : 2603-7732

Website : [www.bch.cuhk.edu.hk](http://www.bch.cuhk.edu.hk)

Email : [biochemistry@cuhk.edu.hk](mailto:biochemistry@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Biology

The Division of Biology offers research-oriented programmes leading to the Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) degrees. The purpose of the postgraduate programmes is to train biologists for careers in teaching, research, and industry, in areas ranging from molecular biology to environmental science. The postgraduate programme was established in 1969 with the introduction of MSc programme which was replaced by the MPhil programme in 1972. The PhD programme was introduced in 1981. Up to 2008, the Division of Biology has nurtured 361 MPhil and 75 PhD graduates.

### MPhil in Biology / PhD in Biology

Code: BIO

#### Programme

##### MPhil in Biology

The MPhil programme in Biology comprises research, coursework and seminar presentation. A total of at least 29 units together with a written thesis are required for graduation.

##### PhD in Biology

The programme is research-oriented. A student may be required to take courses, tutorials etc., and will be required to present seminars on topics to be approved by his/her supervisor. For the first two years of study, a student will provide a brief written yearly progress report. A total of at least 41 units together with a written thesis are required for graduation.

Please visit the Division's homepage for more information.

#### Fields of Specialization

- Cell and Molecular Biology
- Animal, Plant and Microbial Biotechnology
- Physiology and Developmental Biology
- Marine and Environmental Sciences

#### Admission Requirements

In addition to the general requirements of the Graduate School<sup>1</sup>

##### MPhil in Biology

Applicants should have majored in Biology or related fields.

##### PhD in Biology

Applicants should normally possess a Master's degree in life sciences, or in another related discipline.

#### Additional Application Information

Admission Advisor : Prof. FUNG, Ming Chiu

Application Deadline : 28 February 2010 (MPhil)

Throughout the year (PhD)

#### Contact Methods

Address : Division of Biology  
Room G89, South Block, Science Centre  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel : 2609-6348

Fax : 2603-5745

Website : [www.bio.cuhk.edu.hk](http://www.bio.cuhk.edu.hk)

Email : [biograd@cuhk.edu.hk](mailto:biograd@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Chemistry

The Department of Chemistry is one of the largest and best equipped departments in the University. Currently, we have 19 full-time faculty members actively engaged in teaching and research in virtually all branches of frontier chemistry. The Department endeavours to further enhance its international status as a centre of chemical research and to intensify collaboration with scientists in other parts of the world, especially China.

### MPhil-PhD in Chemistry

Code: CHM

#### Programme

##### MPhil Stream

Students are required to complete a minimum of 40 units for graduation, including a minimum of 12 units of lecture courses, 4 units of seminar courses and 24 units of thesis research courses. It normally takes two years to complete the programme.

For completion of the programme, students must submit a thesis based on their research for examination and pass a final oral examination.

##### PhD stream

Students must pass the candidacy examination within 24 months from first entry.

Students are required to complete a minimum of 78 units for graduation, including a minimum of 12 units of lecture courses, 6 units of seminar courses and 60 units of thesis research courses. It normally takes three years to complete the programme. For students entering without a research master's degree, they are required to complete a minimum of 92 units for graduation, including a minimum of 12 units of lecture courses, 8 units of seminar courses and 72 units of thesis research courses. It normally takes four years to complete the programme.

For completion of the programme, students must submit a thesis based on their research for examination and pass a final oral examination.

Please visit the Division's homepage ([www.chem.cuhk.edu.hk](http://www.chem.cuhk.edu.hk)) for more information.

#### Fields of Specialization

- Analytical Chemistry and Environmental Science
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry
- Structural Biology and Chemical Biology

#### Admission Requirements

In addition to the general qualifications required for admission to the Graduate School<sup>1</sup>, applicants should have majored in Chemistry or related fields. Applicants who graduated from overseas universities may be required to take Advanced Chemistry in the Graduate Record Examinations conducted by the Educational Testing Service, Princeton, N.J., U.S.A.

Applicants who are not graduates of English-speaking institution must fulfil the "English Language Proficiency Requirement" as stipulated by the Graduate School before being considered for admission. Please refer to Graduate School Homepage for details.

#### Additional Application Information

Admission Advisor : Prof. Zuowei XIE  
Application Deadline : 28 February 2010 (MPhil)  
Throughout the year (PhD)

#### Contact Methods

Address : Division of Chemistry,  
Room G59, South Block, Science Centre,  
The Chinese University of Hong Kong,  
Shatin, NT, HK  
Tel : 2609-6344  
Fax : 2603-5057  
Website : [www.chem.cuhk.edu.hk](http://www.chem.cuhk.edu.hk)  
Email : [chemgrad@cuhk.edu.hk](mailto:chemgrad@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Chinese Medicine

In response to the pressing need to offer research oriented postgraduate programmes in Chinese Medicine, this PhD as well as the MPhil in Chinese Medicine programme, administered by the School of Chinese Medicine, are offered to facilitate the training of researchers of high academic caliber.

**MPhil in Chinese Medicine / PhD in Chinese Medicine**

**Code: CMZ**

### Programme

#### PhD in Chinese Medicine

This programme is research oriented. A student may be required to attend and participate in seminars/workshops of the School, as well as those of relevant topics offered by other departments as deemed appropriate by the supervisors. They also have to present seminars summarizing research work performed. A total of at least 36 units with a written thesis are required for graduation. The 36 units should be taken from the following sections:

	Units
Seminars/Special Studies (one unit for each term)	6
Research for Thesis	30
<b>Total</b>	<b>36</b>

#### MPhil in Chinese Medicine

The programme comprises coursework, seminars and research. Students are required to attend and participate in seminars/workshops of the School, as well as those of relevant topics offered by other departments as deemed appropriate by the supervisors. They also have to present seminars summarizing research work performed. A total of at least 30 units with a written thesis are required for graduation. The 30 units should be taken from the following sections:

	Units
Coursework	6
Seminars/Special Studies (one unit for each term)	4
Research for Thesis	20
<b>Total</b>	<b>30</b>

Please visit the Division's homepage for more information.

#### Fields of Specialization

- Standardization, quality control, and analysis of Chinese medicine materials and patented drug preparations
- Plant chemistry and discovery of biologically active components from Chinese medicines
- Pharmacological, biological, and biochemical properties of Chinese medicines
- Development of botanical products for health
- Clinical study of Chinese Medicine

### Admission Requirements in addition to the general requirements of the Graduate School<sup>1</sup>

#### PhD in Chinese Medicine

- (i) have a recognized Master's degree in Chinese Medicine, biomedical-related or chemical science, or
- (ii) have a Bachelor's degree, normally with honours at second upper division or equivalent, and have been registered in a course of study for a Master's degree at this University for at least one year and have demonstrated research ability.

#### MPhil in Chinese Medicine

- (i) have a recognized Bachelor's degree in Chinese Medicine, biomedical-related or chemical sciences, preferably with honours at second upper division or equivalent.

### Additional Application Information

Admission Advisor : Prof. CHE, Chun Tao

Application Deadline : 28 February 2010

#### Contact Methods

Address : 1/F, Sino Building,  
The Chinese University of Hong Kong,  
Shatin, NT, HK  
Tel. no. : 3163-4328 / 3163-4329  
Fax : 2603-7203  
Website : [www.cuhk.edu.hk/scm](http://www.cuhk.edu.hk/scm)  
Email : [scm@cuhk.edu.hk](mailto:scm@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Environmental Science

The programme is jointly offered by the Divisions of Biochemistry, Biology and Chemistry

**MPhil in Environmental Science / PhD in Environmental Science**

**Code: ENS**

### Programme

#### MPhil in Environmental Science

The programme is research-oriented. Students are required to take a minimum of two courses recognized by the graduate panel. A total of at least 24 units together with a written thesis are required for graduation.

#### PhD in Environmental Science

The programme is research-oriented. Students are required to take a minimum of two courses recognized by the graduate panel and this course requirement can be substituted by special studies. A total of at least 36 units together with a written thesis are required for graduate. Each student will submit a brief written progress report annually.

#### Fields of Specialization

- Environmental Analysis
- Environmental/Biochemical Toxicology
- Environmental Biology
- Environmental Biotechnology/Microbiology
- Environmental Chemistry
- Environmental Health
- Environmental Impact Assessment
- Marine Ecology/Pollution
- Wastes Analysis and Treatment
- Aquatic Toxicology
- Endocrine Disruption
- Molecular Toxicology



#### Admission Requirements: In addition to the general requirements of the Graduate School<sup>1</sup>

##### MPhil in Environmental Science:

Applicants should normally possess a BSc degree in Environmental Science, Biochemistry, Biology, Chemistry or an appropriate related field from a recognized university.

##### PhD in Environmental Science:

Applicants should normally possess a Master's degree in Environmental Science, Biochemistry, Biology, Chemistry or in another related discipline.

#### Additional Application Information

Admission Advisor : Prof. P K WONG

Application Deadline : 28 February 2010



#### Contact Methods

Address : Environmental Science,  
Rm G30, Science Centre,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel. no. : 2609-6294

Fax : 2603-7175

Website : [www.cuhk.edu.hk/ens](http://www.cuhk.edu.hk/ens)

Email : [ens@cuhk.edu.hk](mailto:ens@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



# Division of Food and Nutritional Sciences

The Programme is jointly administered by the Divisions of Biology and Biochemistry through the Food and Nutritional Sciences Division.

**MPhil in Food and Nutritional Sciences** Code: FNS

## Programme

### MPhil in Food and Nutritional Sciences

The programme comprises two years of coursework, seminars and research.

Please visit the Division's homepage for more information.

### Fields of Specialization

- Bioactivity and chemical characterization of food components and phytochemicals
- Food product development
- Food toxicology and safety
- Molecular aspects of human nutrition
- Nutrient metabolism and chronic diseases
- Nutrition, immunity and cancer

### Admission Requirements in addition to the general requirements of the Graduate School<sup>1</sup>

#### MPhil in Food and Nutritional Sciences

Applicants should have majored in Food Science, Nutrition, or a related field. Applicants are advised to contact a prospective advisor to discuss their area of interest before submitting an application.

#### Additional Application Information

Admission Advisor : Prof. Peter CK CHEUNG  
Application Deadline : 28 February 2010



**Contact Methods**

Address : Division of Food and Nutritional Sciences,  
Room G30, G/F, North Block,  
Science Centre,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel : 2609-6295  
Fax : 2603-7175  
Website : [www.cuhk.edu.hk/fns](http://www.cuhk.edu.hk/fns)  
Email : [fns@cuhk.edu.hk](mailto:fns@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Materials Science and Engineering

**MPhil-PhD in Materials Science and Engineering**

**Code: MSE**

### Programme

The programme is research-oriented. Facilities are available for working in a broad range of areas in materials science and engineering. Research topics may vary from year to year and applicants should contact the Division of Materials Science and Engineering for details.

### MPhil Stream

*Full-time Mode*

*(Normative Study Period: 24 months)*

- Coursework : 12 units
- Thesis Research : 6 units each term

*Part-time Mode*

*(Normative Study Period: 36 months)*

- Coursework : 12 units
- Thesis Research : 3 units each term

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

### PhD Stream

Students must pass the candidacy examination within 24 months from first entry.

*Full-time Mode*

*(Normative Study Period: 48 months)*

- Coursework : 12 units
- Guided Study : 1 unit each term
- Thesis Research : 6 units each term during pre-candidacy period and 12 units each term during post-candidacy period

For students entering with a research master's degree, the normative study period is 36 months.

*Part-time Mode*

*(Normative Study Period: 64 months)*

- Coursework : 12 units
- Guided Study : 1 unit each term
- Thesis Research : 3 units each term during pre-candidacy period and 6 units each term during post-candidacy period

For students entering with a research master's degree, the normative study period is 48 months.

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

Please visit the Division's homepage for more information.

### Fields of Specialization

Nanostructured Materials and Nanotechnology, Optical Properties of Semiconductors, Material Testing, Cubic Boron Nitride Growth and Mechanism, Composite Materials, Physics of Thin Films, Undercooled Liquids and Glass Formation, Nonlinear Optics, Thermoluminescence, and Applications of Ion-beam Techniques in Surface Science.

### Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School<sup>1</sup> and should have a Bachelor's degree in Materials Science and Engineering or a related field.

### Additional Application Information

Qualified applicants will be invited to take an entrance examination and interview. However, applicants who have satisfactory score of the GRE Test in Physics, Chemistry or related subjects taken within the past three years may be exempted from the entrance examination.

Application Deadline : 28 February 2010 (MPhil)  
Throughout the year (PhD)

### Contact Methods

**Address** : Division of Materials Science and Engineering,  
Room 107, Science Centre,  
The Chinese University of Hong Kong,  
Shatin, NT, HK  
**Tel. no.** : 2609-6340  
**Fax** : 2603-5204  
**Website** : [www.cuhk.edu.hk/mse](http://www.cuhk.edu.hk/mse)  
**Email** : [gradappl-mse@phy.cuhk.edu.hk](mailto:gradappl-mse@phy.cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.







## Division of Molecular Biotechnology

The PhD Programme as well as the MPhil Programme are administered by the Division of Molecular Biotechnology with support from the Departments of Biochemistry and Biology.

**MPhil in Molecular Biotechnology / PhD in Molecular Biotechnology**

**Code: MBT**

### Programme

#### MPhil in Molecular Biotechnology

The full-time and part-time MPhil Programme in Molecular Biotechnology comprise two years and three years, respectively, of coursework, seminars and research. The minimum unit requirements as listed below:

Coursework	8 units
Seminars	3 units
Thesis Research	18 units
<b>Total</b>	<b>29 units</b>

#### PhD in Molecular Biotechnology

The programme is research-oriented. The full-time and part-time PhD Programme in Molecular Biotechnology comprise three years and four years, respectively, of seminars and research. The minimum unit requirement for PhD students with a research Master's degree is 35 units and for those without a research Master's degree is 45 units, as listed below:

Seminars	5 units
Thesis Research	30/40 units
<b>Total</b>	<b>35/45 units</b>

Please visit the Division's homepage for more information.

### Fields of Specialization

- Plant, Animal and Microbial Biotechnology
- Genomics, Proteomics and Bioinformatics
- Protein Structure and Genetic Engineering
- Developmental Biology, Immunology and Neuroscience



### Admission Requirements in addition to the general requirements of the Graduate School<sup>1</sup>

#### MPhil in Molecular Biotechnology

In addition to the general qualifications required for admission to MPhil Programme, applicants should normally possess a BSc degree in Molecular Biotechnology, Biochemistry, Biology or related field from a recognized university.

#### PhD in Molecular Biotechnology

In addition to the general qualifications required for admission to PhD Programme, applicants should normally possess a Master's degree in Molecular Biotechnology, Biochemistry, Biology or related field from a recognized university.

### Additional Application Information

Admission Advisor : Prof. LAM, Hon Ming

Application Deadline : 28 February 2010

### Contact Methods

Address : Division of Molecular Biotechnology,  
Room G30, G/F, North Block, Science  
Centre, The Chinese University of  
Hong Kong, Shatin, NT, HK

Tel. no. : 3163-4414

Fax : 2603-7175

Website : [www.cuhk.edu.hk/mbt](http://www.cuhk.edu.hk/mbt)

Email : [mbtgrad@cuhk.edu.hk](mailto:mbtgrad@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Physics

MPhil-PhD in Physics

Code: PHY

### Programme

The programme is research-oriented. Facilities are available for working in a broad range of areas in experimental and theoretical physics. Research topics may vary from year to year and applicants should contact the Division of Physics for details.

### MPhil Stream

*Full-time Mode*

*(Normative Study Period: 24 months)*

- Coursework : 12 units
- Thesis Research : 6 units each term

*Part-time Mode*

*(Normative Study Period: 36 months)*

- Coursework : 12 units
- Thesis Research : 3 units each term

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

### PhD Stream

Students must pass the candidacy examination within 24 months from first entry.

*Full-time Mode*

*(Normative Study Period: 48 months)*

- Coursework : 12 units
- Guided Study : 1 unit each term
- Thesis Research : 6 units each term during pre-candidacy period and 12 units each term during post-candidacy period

For students entering with a research master's degree, the normative study period is 36 months.

*Part-time Mode*

*(Normative Study Period: 64 months)*

- Coursework : 12 units
- Guided Study : 1 unit each term
- Thesis Research : 3 units each term during pre-candidacy period and 6 units each term during post-candidacy period

For students entering with a research master's degree, the normative study period is 48 months.

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

Please visit the Division's homepage for more information.

### Fields of Specialization

#### Experimental:

Nanostructured Materials and Nanotechnology, Optical Properties of Semiconductors, Material Testing, Cubic Boron Nitride Growth and Mechanism, Composite Materials, Physics of Thin Films, Undercooled Liquids and Glass Formation, Softmatter Physics, Turbulence, Nonlinear Optics, Optics and Lasers, Thermoluminescence, and Applications of Ion-beam Techniques in Surface Science.

#### Theoretical / Computational:

Condensed Matter Physics, High- $T_c$  Superconductivity, Softmatter Physics, Quantum Information and Quantum Computing, Quantum Optics, Turbulence, Cosmology, Astrophysics and Particle Physics, Statistical Physics, Quantitative Finance.

### Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School<sup>1</sup> and should have majored in Physics or a related field.

### Additional Application Information

Qualified applicants will be invited to take an entrance examination and interview. However, applicants who have satisfactory score of the GRE Physics Subject Test taken within the past three years may be exempted from the entrance examination.

Application Deadline : 28 February 2010 (MPhil)  
Throughout the year (PhD)

### Contact Methods

Address : Division of Physics,  
Room 107, Science Centre,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel. no. : 2609-6340

Fax : 2603-5204

Website : [www.phy.cuhk.edu.hk](http://www.phy.cuhk.edu.hk)

Email : [gradappl@phy.cuhk.edu.hk](mailto:gradappl@phy.cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Risk Management Science

Financial crises during the late 1990s and the late 2000s have stimulated not only public interest in risk management, but also their awareness of its importance in today's investment environment. A good understanding of risk management is vital to many companies. Risk management is a highly quantified, scientific, and methodological subject that is closely related to statistics. This programme is designed to fulfill the growing demand of expertise in this area.

### MPhil in Risk Management Science

Code: RMS

#### Programme

##### MPhil in Risk Management Science

The programme comprises coursework, seminars and research. A total of at least 30 units with a written thesis are required for graduation.

Please visit the Division's homepage for more information.

##### Fields of Specialization

- Risk theory, risk measures and value at risk
- Time series, statistical modeling of risky processes
- Fixed income modeling, credit risk and market risk
- Pricing of risky claims

#### Admission Requirements in addition to the general requirements of the Graduate School<sup>1</sup>

##### MPhil in Risk Management Science

Applicants should have majored in Risk Management Science, Mathematics, Statistics, Finance, or a related field.

##### Additional Application Information

Admission Advisor : Prof. LEUNG, Pui Lam

Application Deadline : 28 February 2010

#### Contact Methods

Address : Department of Statistics,  
Room 119, Lady Shaw Building,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel : 2609-7931

Fax : 2603-5188

Website : [www.sta.cuhk.edu.hk/Dept/PostG/pgRMSPrG.htm](http://www.sta.cuhk.edu.hk/Dept/PostG/pgRMSPrG.htm)

Email : [esthertam@cuhk.edu.hk](mailto:esthertam@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.



## Division of Statistics

The Division of Statistics provides multi-disciplinary programmes based in the Faculty of Science of The Chinese University of Hong Kong. The objectives are to extend the frontiers of research in various fields of statistics and applied statistics, including but not limited to Finance and Econometrics, Imaging and Signal Processing, Latent Variable Models, Multiple Comparisons, Spectral Density Estimation, Statistical Computing, Structural Equation Models, and Time Series.

### MPhil-PhD in Statistics

Code: STA

#### Programme

##### MPhil Stream

Students are required to complete a minimum of 42 units for graduation, including a minimum of 18 units of lecture courses and 24 units of thesis research courses.

##### PhD Stream

In addition to the 18 units of lecturer courses, students are required to take thesis research course every term till they graduate.

Please visit the Division's homepage for more information.

#### Fields of Specialization

- Imaging and Signal Processing
- Statistical Computing
- Structural Equation Models
- Time Series
- Others

#### Admission Requirements

Applicants must meet the general requirements of the Graduate School<sup>1</sup> and should have a good honours degree in a related field.

#### Additional Application Information

Admission Advisor : Prof. S.Y. LEE

Application Deadline : 28 February 2010

#### Contact Methods

Address : Division of Statistics,  
Room 119, Lady Shaw Building,  
The Chinese University of Hong Kong,  
Shatin, NT, HK

Tel : 2609-7931 (Miss Tam)

Fax : 2603-5188

Website : [www.sta.cuhk.edu.hk](http://www.sta.cuhk.edu.hk)

Email : [esthertam@cuhk.edu.hk](mailto:esthertam@cuhk.edu.hk)

1. For the general qualifications required for admission to the Graduate School, please refer to pages 18-19.