

Division of Materials Science and Engineering

MPhil-PhD in Materials Science and Engineering

Admission 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

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.

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

Optical properties of semiconductors, surface science, synthesis and characterization of semiconductor and metal nanostructures, nanoplasmonics of metal nanostructures, ceramic-metal matrix composites, undercooled metal liquids and nanostructured metal composites, fabrication and characterization of biomorphic materials, nonlinear optical properties of organic materials, applications of nanoparticles in biological and medical research, solar energy materials, computational biophysics, computational material physics.

Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School¹ 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 an entrance examination and interview. However, applicants who have satisfactory score of the GRE Subject Test (in either "Physics", "Chemistry", "Mathematics", "Biology", or "Biochemistry Cell and Molecular Biology") taken within the past three years may be exempted from the entrance examination.

Admission Advisor

Prof. Lei XU

Application Deadline

1 December 2016

For applicants who apply for PhD programme through the Hong Kong PhD Fellowship Scheme (HKPFS)²

31 January 2017

For applicants who apply for MPhil programme directly with CUHK

Throughout the year

For applicants who apply for PhD programme directly with CUHK (i.e. non-HKPFS applicants)

CONTACT METHODS

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¹ For the general qualifications required for admission to the Graduate School, please refer to pages 16-17.

² For information on HKPFS, please refer to page 17.