

# 測繪及地理資訊學 理學碩士學位 / 深造文憑

(地理資訊 / 測量)

Faculty of Construction and Environment ■ 建設及環境學院



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學

## 教學語言

- 英語

## 修讀時間

- 一年(全日制)
- 兩年半(兼讀制)

## 所需修讀學分

- 理學碩士學位課程(30學分)
- 深造文憑課程(21學分)

## 課程主任

- 吳波博士
- BEng, MSc, PhD, MRICS

## 電話

- (852) 2766-4335

## 電郵

- bo.wu@polyu.edu.hk

## 申請程序

申請人可透過 Study@PolyU 網站 [www.polyu.edu.hk/study](http://www.polyu.edu.hk/study)，索取申請文件並遞交申請。

## 查詢

電話：(852) 2766-5029

傳真：(852) 2362-2574

電郵：[faculty.ce@polyu.edu.hk](mailto:faculty.ce@polyu.edu.hk)

建設及環境碩士組合課程網址：  
[www.polyu.edu.hk/fce/study-at-fce/taught-postgraduate-programmes](http://www.polyu.edu.hk/fce/study-at-fce/taught-postgraduate-programmes)

非本地申請人在接受取錄前，要確保有充裕時間取得有效簽證來港就讀。如查詢簽證事項，可瀏覽教務處網頁 [www51.polyu.edu.hk/eprospectus/tpg/student-visa-application](http://www51.polyu.edu.hk/eprospectus/tpg/student-visa-application)

如中、英文之課程資料有所差異，一概以英文版為準。

此單張由香港理工大學建設及環境學院出版，資料截至2019年8月為準，當中的內容或會修訂及變更。香港理工大學保留更改或停辦任何有關課程之權利。

## 課程目標

本課程專為地理資訊系統(GIS)、測量學或相關範疇的專業人士而設，為學生提供專門從事GIS或地政及工程測量學所需的理論知識及實用方法。

## 課程架構

此課程提供兩項專業(地理資訊系統/測量)供學生選擇。學生須於申請入學時決定其專業課程。學生可從一系列由建設及環境碩士組合課程提供的科目中選科，每個科目在為期13週的學期內每週授課一次，授課時間為晚上。

## 理學碩士學位課程

學生必須完成7科，其中最少4科為核心科目，及一篇有關地理資訊系統(GIS)或測量學的碩士論文。不選擇寫論文的學生可選修測繪及地理資訊學研究及一科核心科目代替。該核心科目可以是關於GIS或測量學，視乎學生所屬分組而定。

## 深造文憑課程

學生必須完成7科，其中最少4科為核心科目。

## 專業認可資格

本理學碩士課程已獲香港測量師學會(HKIS)、英國特許土木工程測量師學會(ICES)、皇家特許測量師學會(RICS)及香港工程測量師學會(HKIES)認可。

## 入學資格

- 持有工程、科學或科技榮譽學士學位；或
- 持有相關榮譽學士學位(如地理榮譽文學士學位)<sup>~</sup>；或
- 持有認可專業資格，及有關測量或地理信息系統的工作經驗<sup>~</sup>。

<sup>~</sup>申請人可能需要接受面試。

申請人需符合香港理工大學之基本入學英語水平。

詳情請參閱網址 [www.polyu.edu.hk/study](http://www.polyu.edu.hk/study)

## 核心學習範圍

此為課程綱要，學生在註冊後將獲發可選修科目的詳細資料。

### 地理資訊系統(GIS)專業

- 空間數據可視化與建模
- 高級地理資訊系統
- 城市信息學
- 城市科學與系統

### 測量學專業

- 衛星定位及導航
- 高等測量學
- 攝影測量與計算機視覺

### GIS及測量學均可選修的科目

- 地理資訊系統原理
- 空間數據獲取
- 空間數據分析與挖掘
- 遙感圖像處理
- 項目研究
- 碩士論文

上述專業的核心科目可能會被修訂。

如欲索取有關課程資料，可瀏覽 [www.lsgi.polyu.edu.hk/prospective-students/degrees-and-qualifications/master-of-science-in-geomatics/index.asp](http://www.lsgi.polyu.edu.hk/prospective-students/degrees-and-qualifications/master-of-science-in-geomatics/index.asp)

# MSc/PgD in Geomatics (Geographic Information Systems / Surveying)

Faculty of Construction and Environment ■ 建設及環境學院



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學

## Medium of Instruction

- English

## Normal Duration

- 1 year (Full-time)
- 2.5 years (Part-time)

## Credits Required for Graduation

- 30 credits for MSc
- 21 credits for PgD

## Programme Leader

- Dr Bo WU
- BEng, MSc, PhD, MRICS

## Tel

- (852) 2766-4335

## Email

- bo.wu@polyu.edu.hk

## Application Procedures

Prospective applicants can obtain application materials and submit applications via the Study@PolyU website at

[www.polyu.edu.hk/study](http://www.polyu.edu.hk/study)

## Enquiries

Telephone: (852) 2766-5029

Fax: (852) 2362-2574

Email: [faculty.ce@polyu.edu.hk](mailto:faculty.ce@polyu.edu.hk)

Website:

[www.polyu.edu.hk/fce/study-at-fce/taught-postgraduate-programmes](http://www.polyu.edu.hk/fce/study-at-fce/taught-postgraduate-programmes)

Before accepting an offer of admission, non-local applicants should ensure they have sufficient time to obtain a valid visa to study in Hong Kong. For enquiries on visa matters, please visit the Academic Secretariat website at

[www51.polyu.edu.hk/eprospectus/tpg/student-visa-application](http://www51.polyu.edu.hk/eprospectus/tpg/student-visa-application)

In the event of discrepancies between the English and Chinese versions of this leaflet, the English version shall prevail.

Published by the Faculty of Construction and Environment of The Hong Kong Polytechnic University (PolyU), this leaflet contains information known as of August 2019. Contents of this publication are subject to review and change, and PolyU reserves the right to alter or withdraw programmes described herein.

## Programme Aims

Designed for professionals in geographic information systems (GIS), surveying or related fields, this programme provides students with the theoretical understanding and practical skills that are required to specialise in GIS or land and engineering surveying.

## Programme Structure

This programme offers two specialisms (GIS/Surveying). Students can select from a wide range of subjects that are offered under the Postgraduate Scheme in Construction and Environment. Each subject generally requires one evening class per week over a 13-week semester.

### For the MSc

Students must complete 7 subjects, including at least 4 Core Subjects, and a Dissertation that is pertinent to geographic information systems (GIS) or surveying. The Dissertation is optional. Alternatively, you can choose the Geomatics Project and one more Core Subject from GIS or surveying, depending on your stream.

### For the PgD

Students must complete 7 subjects, including at least 4 Core Subjects.

## Professional Recognition

The MSc programme has been accredited by

- The Hong Kong Institute of Surveyors (HKIS);
- The Chartered Institution of Civil Engineering Surveyors (ICES);
- The Royal Institution of Chartered Surveyors (RICS); and
- The Hong Kong Institution of Engineering Surveyors (HKIES)

## Entrance Requirements

- A Bachelor's degree with Honours in engineering, science or technology; OR
- A Bachelor's degree with Honours in other relevant disciplines (such as a Bachelor of Arts (Honours) in Geography)<sup>^</sup>; OR
- A professional qualification plus relevant work experience related to Surveying or Geographic Information Systems (GIS)<sup>^</sup>.

Holders of the qualifications marked with <sup>^</sup> may be invited to attend an interview to assess their suitability for the programme.

Applicants must also meet the English language requirement of the University.

Please visit [www.polyu.edu.hk/study](http://www.polyu.edu.hk/study) for details.

## Core Areas of Study

The following is a brief summary of the core areas of study. Students will be provided with detailed information on the subjects for selection upon registration.

### Geographic Information Systems (GIS) Specialism

- Spatial Data Visualization & Modeling
- Advanced Geographic Information Systems
- Urban Informatics
- Urban Science and Systems

### Surveying Specialism

- Satellite Positioning & Navigation
- Advanced Surveying
- Advanced Photogrammetry and Computer Vision

### Both GIS and Surveying Specialisms

- Principles of GIS
- Spatial Data Acquisition
- Spatial Data Analysis & Mining
- Remote Sensing Image Processing
- Project
- Dissertation

The Core Subjects of the above specialisms are subject to revision.

Details of the programme can be obtained at [www.lsgi.polyu.edu.hk/prospective-students/degrees-and-qualifications/master-of-science-in-geomatics/index.asp](http://www.lsgi.polyu.edu.hk/prospective-students/degrees-and-qualifications/master-of-science-in-geomatics/index.asp)