

# 高效能建築 理學碩士學位

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)

## 課程主任

- 周志坤博士
- MS(Arch), MS(Mech),  
PhD, MCIQB, PFM,  
MHKIOA

## 電話

- (852) 2766-7780

## 電郵

- chi-kwan.chau@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  
建設及環境碩士組合課程網址：  
<https://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 <http://www.polyu.edu.hk/as/webpage/for-student/visa-matters-for-non-local-students#StudentVisa>

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2017年9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

高效能建築理學碩士學位課程本著教研相長的信念，讓學生全面和深入地學習有關高效能建築評核的專業知識，從而促進這種發展模式。高效能建築能減少地球烙下的碳足印，能給業主提供一套理想建築物運作模式和提供最優質的室內環境，充分保障使用者的身心健康。

為達致上述目標，本課程的內容跨越不同學術領域。我們會從可持續發展、建造高層建築，以及社會和經濟發展的角度通盤審視問題，重點研究氣候變化、碳足印評估、屋宇設備系統管理及優化、室內環境質素評估等課題，突破管理學、工程學及環境科學的傳統分野，宏觀地探討可持續發展。課程以當代的科研成果為本，糅合「高效能建築」與「都市密集建築」的相關理論，使學生能緊貼時代脈搏，汲取最新知識。

## 課程架構

課程設有多個科目供學生選修，每科一般要求學生在長13週的學期內上課39小時。

### 理學碩士學位課程(撰寫專題論文)

學生須修畢7科面授科目，包括4科「必修核心科目」，並撰寫一篇與其研究專項有關的論文。

### 理學碩士學位課程(不撰寫專題論文)

學生須修畢10科面授科目，包括4科「必修核心科目」及最少3科「核心科目」。

若學生修畢七科科目(共21學分)，包括四科必修科目，兩科核心科目，及一科選修科目，便可獲得深造文憑。

## 專業認可資格

本理學碩士學位課程符合皇家特許測量師學會(RICS)對環境和建築測量專業方面註冊工程師的學術要求。

本課程符合英國特許屋宇設備工程師學會(CIBSE)對相關註冊工程師的學術要求，課程已獲得該學會的專業認證。

## 入學資格

- 持有建築學、建造及房地產學等相關榮譽學士學位或同等學歷(如認可專業資格)。

申請人的英語水平亦須達到香港理工大學的基本要求。查閱詳情，請登入 [www.polyu.edu.hk/study](http://www.polyu.edu.hk/study)

有關學系會酌情考慮每位申請人的狀況。申請人或需參加面試或筆試，以證明達到規定的語文水平。

## 核心學習範圍

本課程的核心學習範圍主要包括

- 建築系統效能
- 建築物碳足印審計
- 室內環境質素評核
- 專題研究

如欲索取有關科目的詳情，可瀏覽 <http://www.bse.polyu.edu.hk/programmes/SubjectCode/index.html>

# MSc in High Performance Buildings

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

## Medium of Instruction

- English

## Normal Duration

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

## Credits Required for Graduation

- 30 credits for MSc

## Programme Leader

- Dr Chau Chi Kwan
- MS(Arch), MS(Mech), PhD,  
MCIQB, PFM, MHKIOA

## Tel

- (852) 2766-7780

## Email

- chi-kwan.chau@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:

<https://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 <http://www.polyu.edu.hk/as/webpage/for-student/visa-matters-for-non-local-students#StudentVisa>

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 September 2017. Contents of this publication are subject to review and change, and PolyU reserves the right to alter or withdraw programmes described herein.

## Programme Aims

The mission of the High Performance Buildings (HPB) programme is to engage in education and research for the advancement of high performance buildings. In particular, the HPB programme provides an opportunity for students to broaden and deepen their knowledge on assessment of High Performance Buildings, which impose minimal impacts on global carbon footprints (global impacts), and facilitate optimized performance of building systems (building impacts), as well as the best indoor environments for the health and well-being of occupants.

To fulfill this mission, the High Performance Buildings programme adopts an interdisciplinary approach by linking sustainable development and high-rise building construction together with socio-economic development, focusing on climate changes, carbon footprint assessment, building services system management and optimization, and indoor environmental quality evaluation. It is designed to cut across traditional boundaries of management, engineering and environmental sciences to take a broad view of sustainability issues. Integrating knowledge of high performance buildings and urban construction, this programme provides the most up-to-date knowledge based upon contemporary research findings.

## Programme Structure

Students can select from a wide range of subjects, each of which normally requires 39 hours of attendance over a 13-week semester.

### For the MSc with Dissertation

Students must complete 7 taught subjects, including 4 Compulsory Core Subjects, and a Dissertation that is relevant to their area of specialisation.

### For the MSc without Dissertation

Students must complete 10 taught subjects, including 4 Compulsory Core Subjects, and at least 3 other Core Subjects.

Students can exit at the PgD level, having satisfactorily completed 7 subjects (21 credits), including 4 Compulsory Subjects, 2 Core Subjects and 1 Elective Subject.

## Professional Recognition

This programme is recognised by the Royal Institution of Chartered Surveyors (RICS) under the specialism of Environment and Building Surveying.

This programme is also accredited by the Chartered Institution of Building Services Engineers (CIBSE) as suitable further learning to meet the academic requirement for CEng registration.

## Entrance Requirements

- A Bachelor's Degree with Honours relevant to architecture, construction and real estate industry, or the equivalent (including recognized professional qualifications).

Applicants must also meet the minimum English Language requirement of the University. Please visit [www.polyu.edu.hk/study](http://www.polyu.edu.hk/study) for details.

Individual cases will be considered on their own merit by the departments concerned. Applicants may be required to attend interviews or tests to further demonstrate their language proficiency.

## Core Areas of Study

The following is a brief summary of the core areas of study.

- Building System Performance
- Building Carbon Footprint Assessment
- Indoor Environmental Quality Assessment
- Research Project

Information on the subjects offered can be obtained at

<http://www.bse.polyu.edu.hk/programmes/SubjectCode/index.html>