

消防及安全工程學 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

- 30 學分

課程主任

- 雷芝行博士、工程師
- BEng(Hons), PhD, MHKIE

電話

- (852) 2766-7959

電郵

- c.h.gigi.lui@polyu.edu.hk

申請程序

申請人可透過 Study@PolyU 網站 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：
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

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

課程旨在增進學生的消防及安全工程學專業知識及技術，並培養他們良好的學習態度、學習技巧、智力及想像力。課程以消防及安全科學及工程學的基础分析及概念發展為主，並提供以工程學表現為本的消防規範等新課題。在安全工程學方面，課程重點在改善建築安全。內容包括意外預防、危險評估、風險分析、安全管理與審核、施工現場的安全等。本課程不僅適合屋宇設備工程學的畢業生和相關專業人士修讀，同時也適合建造業、建築設計、測量及其他應用科學領域的專業人士。

課程架構

學生可從一系列科目中選科，每科一般要求學生在為期 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)

學生必須完成 7 科授課式科目，包括 3 科指定的必修核心科目及最少 3 科其他核心科目，當中必需包括「意外預防、危險評估及控制」(BSE558)或「安全管理系統及安全審核」(BSE559)，加一篇與其研究範疇相關的專題論文。

理學碩士學位課程(不撰寫專題論文)

學生必須完成 10 科授課式科目，包括 3 科指定的必修核心科目及最少 4 科其他核心科目，當中必需包括「意外預防、危險評估及控制」(BSE558)或「安全管理系統及安全審核」(BSE559)，及最少 3 科其他核心科目。

專業認可資格

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

- 持有與消防工程、安全工程、屋宇設備工程、建造、建築、建築測量、建築科技、應用科學、工程、物理或化學榮譽學士學位，或同等學歷(包括專業認可資格)。

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。

消防工程學

- 消防模式
- 消防安全管理
- 工程學表現為本消防規範
- 消防工程系統
- 屋宇消防安全設計
- 消防危險評估

安全工程學

- 風險分析
- 安全管理
- 安全審核
- 意外預防
- 施工現場的安全
- 職業健康與人類工程學

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

MSc in Fire and Safety Engineering

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

Programme Leader

- Ir Dr Lui Che-heng, Gigi
- BEng(Hons), PhD, MHKIE

Tel

- (852) 2766-7959

Email

- c.h.gigi.lui@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

Enquiries

Telephone: (852) 2766-5029

Fax: (852) 2362-2574

Email: faculty.ce@polyu.edu.hk

Website:

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

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

We enhance the professional knowledge and skills of students in fire and safety engineering, and develop their learning attitudes, study skills and intellectual and imaginative powers. This programme concentrates on the fundamental analysis and development of fire and safety science and engineering concepts. It also advances quality teaching in the new topic of engineering performance-based fire codes. In safety engineering, the focus is on improving the safety of buildings. Accident prevention, hazard assessment, risk analysis, safety management and auditing, and safety in construction sites are also covered. The programme caters not only for graduates and professionals in building services engineering, but also for those in the broader industries of construction, architecture, surveying and applied sciences.

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 3 specified Compulsory Core Subjects, and at least 3 other Core Subjects, including at least one of the two subjects, Accident Prevention, Hazard Assessment and Control (BSE558) and Safety Management Systems and Safety Auditing (BSE559), plus a Dissertation that is relevant to their area of specialisation.

For the MSc without Dissertation

Students must complete 10 taught subjects, including 3 specified Compulsory Core Subjects, and at least 4 other Core Subjects, including at least one of the two subjects, Accident Prevention, Hazard Assessment and Control (BSE558) and Safety Management Systems and Safety Auditing (BSE559).

Professional Recognition

Accreditation 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 in fire engineering, safety engineering, building services engineering, construction, architecture, building surveying, building technology, applied science, engineering, physics or chemistry; or the equivalent (including recognized professional qualifications).

Core Areas of Study

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

Fire Engineering

- Fire Modelling
- Fire Safety Management
- Engineering Performance-based Fire Codes
- Fire Engineering Systems
- Building Fire Safety Design
- Fire Hazard Assessment

Safety Engineering

- Risk Analysis
- Safety Management
- Safety Auditing
- Accident Prevention
- Safety in Construction Sites
- Occupational Health and Ergonomics

Information on the subjects offered can be obtained at

www.bse.polyu.edu.hk/programmes/SubjectCode/index.html