



香港浸會大學持續教育學院
SCHOOL OF CONTINUING EDUCATION
HONG KONG BAPTIST UNIVERSITY



HIGHER DIPLOMA IN DATA SCIENCE

數據科學高級文憑



Programme 課程

The Higher Diploma in Data Science programme is designed with reference to the needs of the IT industry. It aims to provide students with comprehensive data science knowledge and integrated industry and profession-specific skills, together with the necessary generic competencies to enhance student employability. Students will be taught in a systematic manner, with theoretical and practical foundations in data science, and appropriate industry knowledge to enable them to achieve their personal goals for further studies and career development.

數據科學高級文憑是參考資訊科技行業的需求而設計。課程旨在為學生提供全面的數據科學知識及行業的專業技能，以提高學生的就業能力。課程採用系統式教學，涵蓋數據科學各方面的理論及實踐基礎，以裝備學生實現未來升學及就業目標。



Programme Structure 課程結構

This is a 2-year full-time programme consisting of 21 courses.

本課程為二年全日制，課程包括21個科目。

First Year 第一學年	Second Year 第二學年
Course Title 科目名稱	Course Title 科目名稱
Personal Growth and Development 個人成長與發展	English for Business 商業英語
Writing Academic English 英文學術寫作	Practical Chinese Writing 實用中文寫作
Introduction to Business 商業導論	Data Structures and Algorithms 數據結構與算法
Introduction to Computing and Programming 電腦與編程導論	IT Professionalism 資訊科技專業概覽
Introduction to Database and Big Data 數據庫與大數據導論	Data and Visual Analytics 數據與視覺化分析
Object-oriented Programming 物件導向程式編寫	Applied Deep Learning 應用深度學習
Operating Systems and Networking 作業系統與網絡	Cloud Services and Architectures 雲端服務與架構
Introduction to Data Science 數據科學導論	Cybersecurity Essentials 網絡安全精要
Fundamentals of Artificial Intelligence and Machine Learning 基礎人工智能及機器學習	Applied Network and Data Security 應用網絡與數據保安
Mathematics for Data Science 數據科學數學	Application Development Project 應用程式開發專題項目
Statistics for Data Science 數據科學統計學	



Professional Recognition 專業資格

Hong Kong Computer Society (HKCS) 香港電腦學會



HONG KONG
COMPUTER SOCIETY
香港電腦學會

Student Membership

Students of the Programme are eligible to apply for student membership of HKCS.

學生會員

本課程學生可申請成為香港電腦學會學生會員。

Associate Membership

Graduates of the Programme are eligible to apply for Associate membership of HKCS.

聯繫會員

本課程畢業生可申請成為香港電腦學會聯繫會員。

Industrial Partners 業界夥伴

The programme is supported by many industry partners. The industry partners provide activities and workplace experiences such as mentorships, internships, company visits, workshops and guest seminars to arouse students' interest and enrich their generic and technical skills. Supporting industry partners include ASTRI, Equinix, Hong Kong Jockey Club (Division of Information Technology and Sustainability), IBM, Microsoft, Towngas, UBS AG.

課程獲業界夥伴支持以提供多元化的職場體驗活動，包括師友計劃、實習、企業探訪、工作坊及嘉賓講座等，使學生循序漸進地加深對行業的興趣，並增進他們的職場技能。合作夥伴包括香港應用科技研究院有限公司、易昆尼克斯公司、香港賽馬會資訊科技及持續發展事務部、國際商業機器公司、微軟股份有限公司、香港中華煤氣有限公司、瑞銀集團。



香港賽馬會
The Hong Kong Jockey Club



煤氣
Towngas



UBS

Programme Features 課程特色

Qualification Awarded by HKBU

浸大頒授學歷



Students who have successfully completed the programme will be awarded the Higher Diploma in Data Science by HKBU.

成功完成課程的同學，將獲浸大頒授數據科學高級文憑。

Internship and Mentorship

實習生計劃及師友計劃



Students will have the opportunities to participate in internships with renowned companies such as IBM, Towngas, etc. They will also receive mentoring from experienced IT professionals who will provide guidance on their professional and personal development.

學生將有機會參加實習生計劃，在知名公司工作，例如 IBM、香港中華煤氣有限公司等；並會安排學生參加師友計劃，由經驗豐富的 IT 專業人士提供專業和個人發展指導。

Bootcamp in Mathematics and Programming

數學與編程訓練營



A two-week bootcamp in mathematics and programming will be held prior to the commencement of the programme to help prepare students on their journey to become data professionals.

開課前將舉行為期兩週的「數學與編程訓練營」，為學生的專業學習旅程做好準備。

Focus on Market Development Trend

聚焦市場發展趨勢



The curriculum focuses on the latest developments in the IT industry such as Artificial Intelligence, Data Analytics and Cybersecurity.

課程設計聚焦資訊科技行業的最新發展，包括人工智能、數據分析及網絡安全。

Real-World Experiences in the Classroom

課堂體驗真實商業個案



Real business cases will be used for classroom teaching to enable students to learn actual business practices in the industry.

課堂教學採用真實的商業個案，讓學生了解商業世界的情況。

Articulation to Local and Overseas Undergraduate Programmes

銜接本地及海外大學學士學位課程



Graduates may apply for admission to various undergraduate programmes including local UGC-funded programmes, local self-funded programmes or programmes at overseas universities.

畢業生可報讀各類本科課程，包括本地教資會資助學士學位課程、本地自資學士學位課程或海外大學學士學位課程。

Campus Facilities and Learning Support 學生服務及設施

The School provides a wide range of facilities and services to enhance students' learning and personal growth.

本學院提供不同種類的設施及服務以促進學生的學習及全人發展。

Libraries and Learning Commons
圖書館和學習共享空間

HKBU e-Learning Platforms
浸大網上學習系統

Sports Facilities
運動設施

Medical and Dental Services
醫療及牙科保健服務

Counselling Support
學生輔導

Student Societies and Interest Clubs
學生會及興趣學會

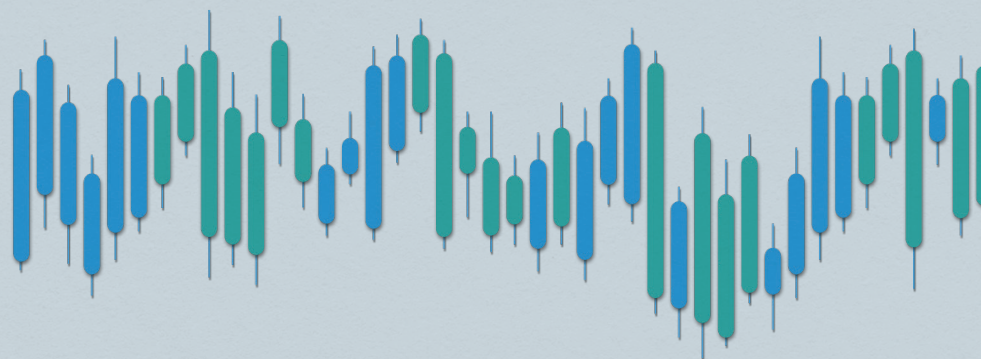




Career Prospects 就業前景

A wide range of career opportunities are available to graduates of this programme. Graduates will be able to take up entry-level positions in IT companies, such as junior AI Software Developer, Cybersecurity Analyst, Data Analyst and Analyst Programmer.

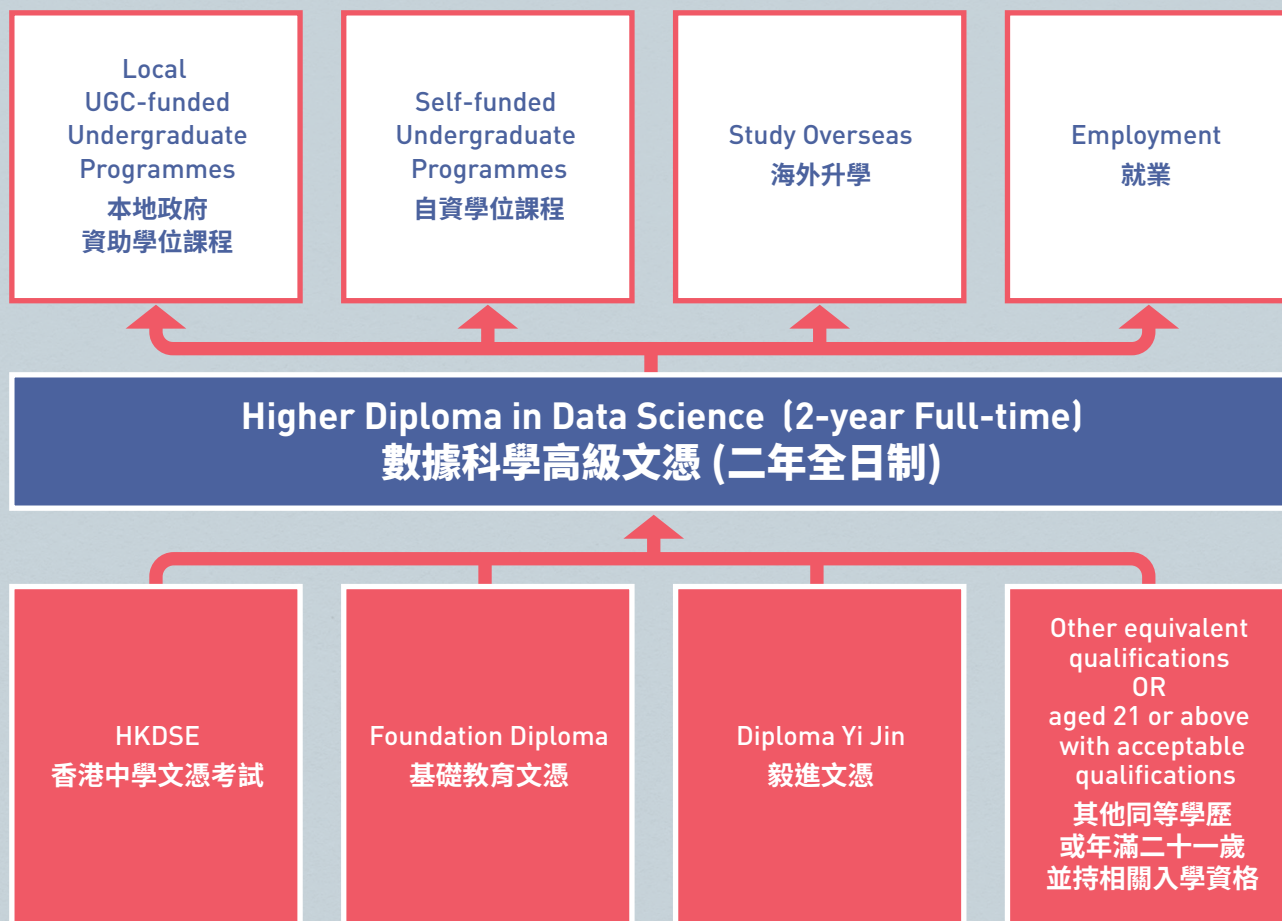
畢業生可投身各類與資訊科技相關的工作，例如初級人工智能軟件開發員、網絡安全分析員、數據分析員及系統分析程序員。



Progression Pathway 升學及就業途徑

Upon completion of the Higher Diploma in Data Science, graduates may choose to apply for admission to undergraduate programmes or enter the job market.

完成數據科學高級文憑後，畢業生可選擇報讀學士學位課程或投身就業市場。



Admission Requirements 入學要求*

1. Hong Kong Diploma of Secondary Education (HKDSE): Level 2 in five subjects^{#1} (including Chinese Language^{#2} and English Language); OR
2. Successful completion of the Diploma Yi Jin; OR
3. Other equivalent qualifications to be assessed by the School; OR
4. Applicants aged 21 or above with acceptable qualifications to justify admission.

^{#1} A DSE applicant is allowed to use not more than two Applied Learning subjects in the application.

^{#2} "Attained" or above in Applied Learning Chinese (for non-Chinese speaking students) would be accepted as an alternative Chinese Language qualification.

* Applicants may be required to attend an interview and/or numeracy test.

1. 香港中學文憑考試五科^{#1} (包括中國語文^{#2}及英國語文) 達到第二級; 或
2. 完成毅進文憑課程; 或
3. 經由持續教育學院評審的其他同等學歷; 或
4. 年滿二十一歲並持相關入學資格的人士。

^{#1} 香港中學文憑試考生可以最多提交兩個應用學習科目的成績。

^{#2} 應用學習中文 (非華語學生適用) 達到「達標」或以上成績符合獲取中國語文科目的入學要求。

* 申請人可能需要參加面試及/或數理能力測試。

Scholarships 獎學金

The School provides a number of scholarships to recognize students with outstanding academic qualifications or other unique achievements.

本院提供多項獎學金，以表揚學業成績或在其他方面有傑出表現的同學。

Tuition Fee 學費

HK\$119,700* in 4 instalments 分四期繳交
(HK\$29,925 / instalment)

* Subject to annual review 學費將按周年檢討作調整

Financial Assistance 學生資助

Student can apply for the various Government financial assistance schemes listed below, according to their own needs and circumstances.

學生可按需要申請下列特區政府的學費資助及貸款計劃。

- Financial Assistance Scheme for Post-secondary Students (FASP) 專上學生資助計劃
- Non-means-tested Loan Scheme for Post-secondary Students (NLSPS) 專上學生免入息審查貸款計劃
- Continuing Education Fund (CEF) 持續進修基金

Application Methods 報名辦法

Current Year HKDSE Candidates 應屆文憑試考生

Applicants can apply through the Education Bureau's E-APP system.
應屆文憑試考生可經教育局E-APP報名。

Non-current Year HKDSE Candidates 非應屆文憑試考生

Applicants can apply through the SCE Online Application System.
非應屆文憑試考生可經持續教育學院網上入學申請系統報名。

Key Dates 重要日子

Application Deadline 申請截止日期

Please visit our programme website for details
詳情請瀏覽課程網頁

Student Orientation 迎新日

Late August 2022
2022年8月下旬

Course Commencement 開課日期

Early September 2022
2022年9月初

☎ 3411 5452 ✉ hdiploma@hkbu.edu.hk 🌐 hkbusce.hk/hd

The School reserves the right to revise the programme contents. Please visit the School's website at hkbusce.hk/hd for the latest information.

本院保留修改課程資料之最終權利，最新資料可瀏覽課程網頁 hkbusce.hk/hd

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