

ENQUIRIES ON APPLICATION AND ADMISSION

入學申請查詢

Local HKDSE candidates should apply for admission to SSSDP programmes through Joint University Programmes Admissions Scheme (JUPAS). Local non-JUPAS applicants (excluding HKDSE applicants) will be invited for application from February 2023 to 4th September 2023. Other applicants should submit their applications through the HSUHK Undergraduate Application System. For further enquiries, please contact the Registry.

本地香港中學文憑考試考生必須透過大學聯合招生辦法(聯招),報讀指定專業 / 界別課程資助計劃的學士學位課程。由2023年2月至9月4日,本課程接受非聯招的本地學生(不包括香港中學文憑試考生)的入學申請。其餘申請人可透過恒大網上入學申請系統遞交申請。如有進一步查詢,請聯絡本校教務處。

Tel 電話 : 3963 5004

Website 網頁 : https://msi.hsu.edu.hk/en/programmes/dsbi/

Facebook : https://www.facebook.com/hsuhk.dsbi

Instagram : @hsuhk.dsbi Programme Email 課程查詢:dsbi@<u>hsu.edu.hk</u>

Address 地址 : Hang Shin Link, Siu Lek Yuen, Shatin, NT

新界沙田小瀝源行善里

HKCAAVQ Qualifications Register 香港學術及職業資歷評審局資歷名冊

QF Level 資歷架構級別: 5

QR Registration No. 資歷名冊登記號碼: 18/000850/L5

Registration Validity Period 登記有效期: 08/11/2018 to 31/08/2024

In case of any discrepancy between the English and Chinese versions of the contents of this pamphlet, the English version shall prevail.

本課程簡介內容以英文版本為準,中文譯本僅供參考。

The Hang Seng University of Hong Kong is incorporated in Hong Kong with limited liability by guarantee.

百念但生人学走 间次百念社训队立之循体有限公司。

Information updated as of February 2023.

有關資料更新至2023年2月。









數學、統計及保險學系 DEPARTMENT OF MATHEMATICS, STATISTICS AND INSURANCE

香港恒生大學 THE HANG SENG UNIVERSITY OF HONG KONG



Bachelor of Science (Honours) in

DATA SCIENCE AND BUSINESS INTELLIGENCE (BSc-DSBI)

數據科學及商業智能學(榮譽)理學士



WHAT IS DSBI? 甚麼是數據科學及商業智能學?



Data Science 數據科學

A collection of analytical skills and techniques derived from mathematics, statistics and computer science for extracting information from data.

集合數學、統計學及計算機科學的分析技能和技術,從數據中提取有用訊息。



Business Intelligence 商業智能學

The analysis, integration and presentation of information for making business decision.

分析、整合和展示商業訊息,從而作出商業決策。

PROGRAMME OVERVIEW 課程概要

- The world is data-driven and organisations of all sizes need to deal with data. 今日的世界由數據主導,企業無論規模大小都需要處理數據。
- There is an increasing demand for data scientists and business intelligence professionals to analyse and manage the ever-growing volume of business data. 各行業對數據科學家和商業智能專才的需求日益增長,期望他們能夠分析和管理不斷上升的商業數據量。
- BSc-DSBI is the first degree programme in Hong Kong to integrate Data Science and Business Intelligence with a comprehensive business education to respond to market needs.

本課程為全港首創,融合「數據科學」及「商業智能學」兩個領域的知識,並提供全面的商學教育,以回應市場的需求。



STUDY SUBSIDY SCHEME FOR DESIGNATED PROFESSIONS/SECTORS 指定專業/界別課程資助計劃

- Nurture necessary talents in support of specific industries with keen demand 培育切合本港社會及經濟需要之人才
- All local students, including both year-1 entrants and year-3 entrants, are entitled to an annual SSSDP subsidy of HK\$44,950, tenable for the normal duration of the programme 每名一年級或三年級入學之本地學生在課程的正常修業期間可獲政府資助學費每學年四萬四千九百五十港元
- The subsidised undergraduate programmes are locally-accredited 受資助的本科課程皆通過本地評審

The BSc-DSBI programme has been selected under SSSDP of the Education Bureau in the discipline "Financial Technology".

本課程已獲納入教育局的指定專業/界別課程資助計劃,屬於「金融科技」的範疇。

JUPAS Code JSSH04





PROGRAMME STRUCTURE 課程架構

Year

MAJOR STUDIES 主修科目

- Foundations of Data Science 數據科學基礎
 Probability and Statistical Theory
- Probability and Statistical Theory 概率及統計論
- Principles of Economics 經濟學原理
- Principles of Management 管理學原理

COMMON CORE REQUIREMENT 共同核心科目

- 2 Chinese Modules 兩個中文科目
- 2 English Modules 兩個英文科目
- Introduction to Linear Algebra and Calculus 線性代數及微積分概論
- Introduction to Computer Programming 計算機程序設計導論
- Perspectives on General Education 涌識概論

Year

MAJOR STUDIES 主修科目

- Optimisation for Data Science 優化理論
- Business Regression Analysis 商業回歸分析
- Statistical Computing in Practice 電腦統計應用
- Survey Sampling 抽樣調查學
- Financial Accounting 財務會計
- Principles of Marketing 市場學原理
- Database Management System and Data Warehousing 數據庫系統和管理

COMMON CORE REQUIREMENT 共同核心科目

- Applied Putonghua 應用普通話
- English for Academic Purposes 學術英語
- 2 General Education Electives 兩個通識選修科目

Year **S** 第三年

MAJOR STUDIES 主修科目

- Simulation 模擬方法
- Ethics and Official Statistics 官方統計及道德概論
- Categorical Data Analysis 類別數據分析
- Data Mining 數據挖掘
- Financial Management 財務管理

COMMON CORE REQUIREMENT 共同核心科目

- English for Professional Communication 專業英語傳意
- 2 General Education Electives 兩個通識選修科目

FREE ELECTIVES 選修科目

• 3 Free Electives 三個選修科目

Year 第四年

MAJOR STUDIES 主修科目

- Financial Time Series for Business Intelligence 商業智能時間序列分析
- Data Audit and Imputation 數據審計及修補
- Machine Learning 機器學習
- Business Policy and Strategy 企業政策及策略

COMMON CORE REQUIREMENT 共同核心科目

• 2 General Education Electives 兩個通識選修科目

FREE ELECTIVES 選修科目

• 2 Free Electives 兩個選修科目

PROFESSIONAL RECOGNITION

專業認可

Students are provided with sufficient knowledge for achieving professional recognition, such as:

本課程教授學生充足的知識,獲取以下專業認可:

- Graduate Statistician (GradStat), Hong Kong Statistical Society 香港統計學會
- · SAS Joint Certificate in Data Mining, SAS Institute Inc
- · SAS Joint Certificate in Machine Learning, SAS Institute Inc

CAREER PROSPECTS 就業前景

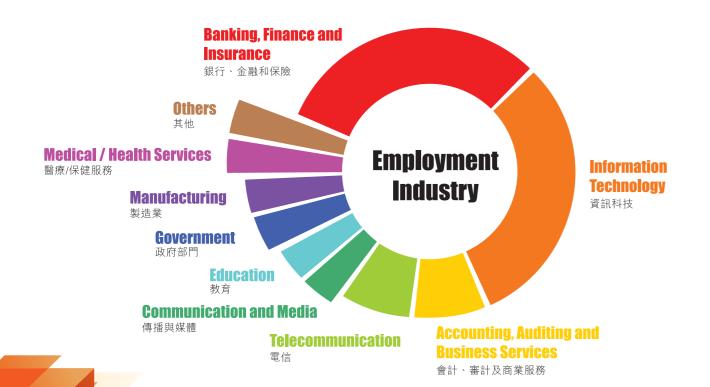
Graduates have a wide range of career options, such as:

畢業生的就業選擇眾多,例如:



GRADUATE EMPLOYMENT SECTORS

畢業生就業分佈



INTERNSHIP PROGRAMME 實習計劃

More than 100 organisations participate in the internship programme.

超過100間機構參與本校的實習計劃。

Some of the participating organisations: 部分提供實習機會的機構

- · Census and Statistics Department 政府統計處
- Hong Kong Monetary Authority 香港金融管理局
- · Bank of China (Hong Kong) 中國銀行(香港)
- · China Construction Bank (China) 中國建設銀行(中國)
- DBS Bank (Hong Kong) 星展銀行 (香港)
- · Hang Seng Bank 恒生銀行
- Big Data Architect Limited 數據架構師有限公司
- · Lively Impact Technology Limited
- Vpon Big Data Group 威朋大數據集團
- A.S. Watson Group 屈臣氏集團
- Ernst & Young 安永會計師事務所
- Pacific BMW (USA) Pacific BMW (美國)
- Regal Hotels International 富豪國際酒店集團



CHAN Hiu Ki (Year 3) 1-year Intern SAS Institute Inc



CHAN Hiu Tung (Year 3) 1-year Intern Hang Seng Bank Limited



KONG Man Chung (Year 1) Intern, Technology and Operations DBS Bank (Hong Kong) Limited



LI Siu Ho (Year 2) Summer Intern, Advisory-Risk Department Ernst & Young Global Limited



MUNG Yuk Frederick (Year 3) Professional Attachment Program, Trade Analysis Census and Statistics Department



CHAN Yiu Man (Year 2) Intern, Sales & Marketing Regal Hotels International



LEE Ho Yeung (Year 3) Intern, Corporate Secretarial Services TMF Hong Kong Limited





NG Chun Wah (Year 3) Intern. Strategic Partnership QBE Hong Kong & Shanghai Insurance Limited



IP King Wai (Year 3) Intern, Marketing Qupital Limited



KWOK Pui Wing (Year 3) Data Analysis Intern, Human Resources A.S. Watson Group



CHEUNG Pak Yin Patrick (Year 4) Data Analyst IT Department Fujikon Industrial Holdings Limited



CHAN Wing Yu (Year 4) Intern Technical Department Big Data Architect Limited



LAM Chun Kai (Year 3) Intern, Cultural Enterprise Business New World Development Company Limited



MAN Yan (Year 3) AIA Internship Program AIA Group Limited



CHEN Meiling (Year 2) Actuarial Intern Deloitte Touche Tohmatsu



CHEN Yu Ting (Year 1) Singapore Oversea Intern, Career Consulting BestTop Consulting Pte. Limited

STUDENT EXCHANGE PROGRAMME



The Hang Seng University of Hong Kong has been engaged in exchange partnership with renowned overseas institutions around the world. Students can take this opportunity to broaden their horizons and gain valuable life experience.

香港恒生大學與世界著名海外學府簽訂學 生交流合作協議,藉此讓學生擴闊視野 獲得寶貴的生活經驗

MENTORSHIP PROGRAMME 導師計劃

The mentorship programme is organised to help students to establish friendships with professional elites and provide them with a platform to increase their exposure to the industry. Through sharing and interacting with mentors, mentees are able to obtain firsthand career information and career prospects.

導師計劃旨在幫助學生與業界精英建立友誼 為學生提供與業界接觸的平台。透過與導師的 分享與互動,學生能夠獲得各行業就業前景的 第一手資訊。



COMPANY VISITS

公司考察

Company visits provide wonderful opportunities for students to get a better understanding of what professionals in the field are doing.

公司考察提供很好的機會,讓學生加深了解該領域專業人士的工作。



SAS Institute Inc



Census and Statistics Department 政府統計處

ALUMNI SHARING 畢業生分享

The BSc-DSBI Programme offers a range of courses tailored to meet the specific academic and professional goals of each student. Not only does the Programme offer courses involving hot topics in data science such as Machine Learning, Data Mining, Deep Learning, it also offers a wide range of courses which provide foundations for students to apply knowledge in a complex business environment. Last but not least, the BSc-DSBI Programme constantly gives students opportunities to attend seminars about updated industry information and encourages students to join internship programmes and competitions to increase exposure and competitiveness.

BSc-DSBI課程提供了一個彈性的課程範疇,讓每個學生選擇適合自己的學術和專業方向。課程不僅教 授機器學習、數據挖掘、深度學習等熱門話題,它還提供廣泛的選修科目,為學生在商業環境中作好 準備。最重要的是, BSc-DSBI課程不斷為學生安排行業資訊講座, 並鼓勵學生多做實習和參與公開比 賽,以增廣見聞和提升競爭力。





The BSc-DSBI Programme reveals the knowledge and insights in the data science field. The Programme provides various courses on essential topics and offers opportunities to practise and apply the theories through different data projects. It also provides a solid foundation in business field which helps students analyse the insights for better decisions and strategies to meet the business needs and expectation. These experiences and knowledge are valuable to my personal and career development.

BSc-DSBI課程為學生揭示數據科學領域的知識和見解。課程包括了各類學術科目,並通過不同的數 據專題研習,將理論應用於各個商業範疇。BSc-DSBI課程還在商業領域提供了堅實的基礎,讓學生 能夠分析策略和作出商業決定,以滿足商業需要。這些經驗和知識對個人發展和將來事業都有莫大

KONG Man Chung Data Scientist Hang Seng Bank



Joining the BSc-DSBI program was a fantastic experience for me. Through the comprehensive curriculum, I could build strong data science fundamentals and learn advanced data mining and machine learning techniques. On this journey, my professors and the BSc-DSBI office gave me crucial advice and tremendous support, which was essential to allow me to complete my degree in 3 years. The program opens multiple opportunities to different industries, and fortunately, I was able to enter the finance industry.

對我來說,修讀BSc-DSBI課程是一個奇妙的經歷。通過綜合、全面的課程結構,我奠下了穩健的數據 科學基礎,並從中學習先進的數據挖掘和機器學習技術。在這段學習旅程中,BSc-DSBI全體教職員給 予我重要的建議和巨大的支持,這對我在3年內完成學位至關重要。這課程為學生畢業出路提供了多 種機會進入不同行業,我亦很幸運能夠進入金融行業。





STUDENT ACHIEVEMENTS 學生成就

The BSc-DSBI Programme encourages students to participate in different kinds of competitions to increase their exposure and gain hands-on experience.

BSc-DSBI課程致力鼓勵學生參加各項比賽,以增廣見聞及獲得實戰經驗。



MonsoonSIM Enterprise Resource Management (Online Business Simulation Game) Hong Kong Competition 2021 - 2nd Runner Up

MonsoonSIM第七屆企業模擬資源管理比賽(香港區總決賽)2021季軍 前海粵港澳台青年創新創業大賽(香港賽區大專組)2021 — 銀獎



Qianhai Guangdong - HongKong - Macao Youth Innovation and Entrepreneurship Competition (Hong Kong Region, degree category) 2021 - Silver Prize