香港恒生大學
THE HANG SENG UNIVERSITY OF HONG KONG
計算機科學系
Department of Computer Science

JSSH03
JUPAS Catalogue Number

Bachelor of Science (Honours) in APPLIED COMPUTING (BSc-AC)
計算機應用(榮譽)理學士



BSc (HONS) IN APPLIED COMPUTING (BSc-AC)
計算機應用(榮譽)理學士(BSc-AC)

The programme covers cutting-edge technologies, including computer science, artificial intelligence, machine learning, and data science. It emphasizes essential software development skills, such as user interface and user experience design, and offers electives in areas like fintech and multimedia design. The curriculum progresses from foundational to advanced topics, with a stronger focus on practical application compared to traditional computer science programmes. The programme aims to cultivate innovative thinking and practical skills, preparing students to tackle challenges in a rapidly evolving technological landscape.



本課程涵蓋計算機科學、人工智能、機器學習和數據分析等尖端技術；同時亦包含介面開發、用戶體驗設計等開發成功軟件的關鍵技能。課程同時提供金融科技、多媒體設計等選修範疇。課程內容由基礎至進階循序漸進，相較傳統計算機科學課程更強調實用性，著重培養學生的創新思維與實戰能力，幫助學生在快速變遷的科技環境中從容應對各種挑戰。



ADMISSION INFORMATION
入學資訊



Year-one entry (Eligible local applicants*)

- Applications should be submitted via JUPAS (Programme code: JSSH03)
- Possess HKDSE Examination results or equivalent qualifications (HKDSE Results 332A2 or above)
- Interested in computing and information technology
- Interviews will be conducted on a selective basis
- Candidates without studying ICT can also apply
- Priorities will be given to qualified candidates who placed this programme in a higher JUPAS programme choice

Senior Year Entry

- Admit directly to Year-3 of BSc (Hons) in Applied Computing
- Completed (or expecting to complete) an Associate Degree or a Higher Diploma, with cGPA at least 2.5 on a 4.0 maximum scale, in related study area
- Application should be submitted via HSUHK Undergraduate Application System

一年級入學 (合資格本地申請者*)

- 請透過JUPAS系統申請 (JUPAS Code: JSSH03)
- 須持有香港中學文憑考試成績或具備同等學歷 (HKDSE成績 332A2或以上)
- 對電腦及資訊科技感興趣
- 申請者或會被邀請面試
- 沒有修讀ICT者亦可申請
- JUPAS課程排列次序較高，而又符合要求者，將獲優先考慮

高年級入學

- 直接入讀 BSc (Hons) in Applied Computing 第三年
- 完成或預計完成相關範疇的副學士學位或高級文憑且cGPA至少為2.5（按最高4.0積分點的比例）
- 請透過HSUHK網上入學申請系統遞交入學申請

PROGRAMME INTRODUCTION VIDEO 課程介紹短片

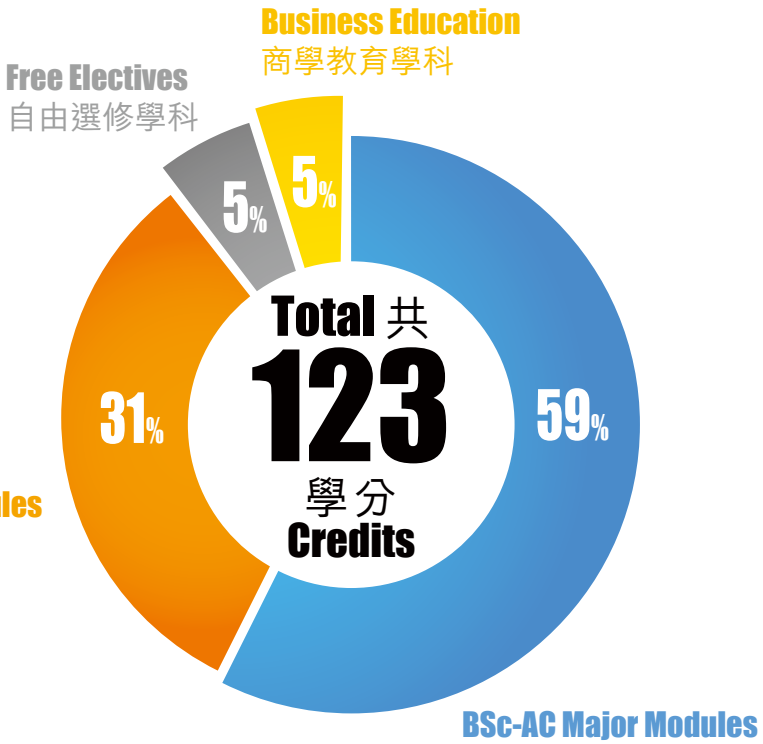
*For details please refer to the SSSDP website

*詳情請參閱SSSDP網站: https://www.cspe.edu.hk/tc/sssdp/

ACADEMIC OVERVIEW
課程概覽

BSc-AC is a four-year degree programme. Students need to complete a total of 123 credits from a four-year curriculum consisting of Major modules, Common Core modules, Business Education modules and Free Elective modules.

本課程為四年制本科課程。課程結構由主修學科、共同核心學科、商學教育學科及自由選修學科所組成。學生須於四年內修讀合共123學分。



3 SPECIALIZATIONS 專業範疇

Students can choose to study in their specialization based on their own interests and strengths
學生可因應自身興趣及專長選讀專業範疇



Software Engineering 軟件開發

- Software Engineering
- Backend Web Development
- Cybersecurity
- IT Project Management
- Mobile Computing
- Game Development
- Financial Technology



Artificial Intelligence & Machine Learning
人工智能及機器學習

- Artificial Intelligence
- Financial Computing
- Cybersecurity
- Machine Learning
- Deep Learning



UI/UX Design 用戶體驗及介面設計

- Human-Computer Interaction
- Mobile Computing
- Computer Animation for Interactive Content
- User Research in Computer Science
- User Experience Design
- Game Development

PROGRAMME STRUCTURE
課程架構

YEAR 1

Major Studies 主修學科
- Contemporary Information Technologies
- Programming Methodology
- Programming and Data Structures
- Computer System
- Fundamental Mathematics for Computing
- Discrete Mathematics and Probability

Common Core Modules 共同核心學科
- Freshmen Chinese
- University English (I & II)
- University and Liberal Arts Education

Business Education 商學教育學科
- Introduction to Business

YEAR 2

Major Studies 主修學科
- Advanced Programming
- Algorithms
- Computer Network
- Database Design and Management
- Graphic and Digital Design

Common Core Modules 共同核心學科
- Chinese Literature Appreciation
- Applied Putonghua
- English for Academic Purposes
- FuturEdge Elective (x1)

Business Education 商學教育學科
- Principles of Management

YEAR 3

Major Studies 主修學科
- Artificial Intelligence
- Human-Computer Interaction
- Software Engineering
- Major Elective (x3)
- Computing Technologies in Web Applications
- Professionalism and Ethics in Computing

Common Core Modules 共同核心學科
- English for Professional Communication
- FuturEdge Elective (x2)

Major Electives 主修選修
- Mobile Computing
- Frontiers in Computing
- Machine Learning
- Student Internship
- Financial Computing
- Backend Web Development
- Deep Learning
- Game Development
- Cybersecurity
- Financial Technology
- Computer Animation for Interactive Content
- User Research in Computer Science
- IT Project Management

(Any five of the above 以上選讀五科)

YEAR 4

Major Studies 主修學科
- Senior Project (2 semesters)
- User Experience Designs
- Major Elective (x2)

Common Core Modules 共同核心學科
- FuturEdge Elective (x3)

Free Electives 自由選修學科
- Free Elective (x2)

WORDS FROM OUR GRADUATES
畢業生的話



I chose to study Computing at HSUHK due to the high demand of IT talents and my interests in coding. My study helped me discover different areas within computing technologies, which helped me strengthen all my technical skills. The projects gave me chances to gain practical experiences. The most amazing part of our programme is the endless support from our professors. They always encourage us to ask them questions, no matter if it is about academic, career or personal growth. They gave me valuable suggestions when I was struggling about my future. Technology is the trend in the future, while all the knowledge and words from my professors are the treasures I gained here. Thank you for everything.

Athena Ng, Graduate 吳苡筠 - 畢業生
Quantitative Developer



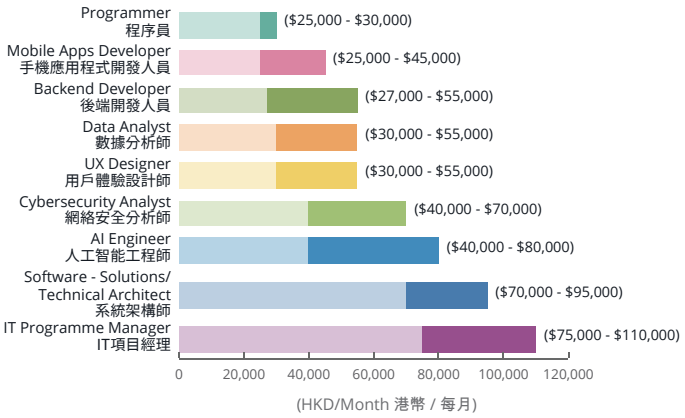
"Aim higher, even if you stumble, you will still perform better than you once did." This motto has guided me throughout my four years at HSUHK. Starting with no programming knowledge, I embraced every opportunity HSUHK offered, serving as the financial secretary of the student association, participating in the HSUHK Local Internship Programme, and leading a research team in Artificial Intelligence Voice Conversion, which culminated in a paper presented at the IEEE World Congress on Computational Intelligence.
The ambitious goals I set and the support from HSUHK—through expert guidance from professors and scholarships as financial assistance—were vital to my success. As my journey at HSUHK concludes, I am grateful for these unforgettable experiences that will shape my future.

Martin Lee, Graduate 李傳軒 - 畢業生
Stock Trading System Developer

SALARY TREND
薪酬趨勢

IT talents in Hong Kong are in short supply. Young practitioners may enjoy a monthly salary of $25,000 to $55,000, while experienced senior professionals could earn up to $90,000 per month.

香港目前電腦及創新科技人才供不應求，年輕從業員月薪可達港幣$25,000至$55,000，而富經驗的高級專業人員月入更高達港幣$90,000。



Data source 資料來源：The Adecco Hong Kong Salary Guide 2026

CAREER PATHWAYS
就業出路

AI Industries 人工智能產業	AI/ML Engineer, Deep Learning Specialist, Forward Deployed Engineer (FDE) 人工智能/機器學習工程師、深度學習專家、前線部署工程師
Software Development 軟件開發	Software Developer, Software Engineer, System Analyst, IT Consultant, Web Developer, Mobile Apps Designer, Entrepreneur 軟件開發人員、軟件工程師、系統分析師、資訊科技顧問、網頁開發人員、流動應用程式設計師、企業家
Creative Industry and Multimedia 創意產業及多媒體	Video Game Developer, Computer Graphic Designer, Multimedia Content Developer 遊戲開發人員、圖像設計師、多媒體內容開發人員
Business IT Solution 商業IT方案	Solution Architect, Business Analyst 方案架構師、商業分析師
Project Management (IT) 項目管理 (IT)	IT Project Manager 資訊科技專案經理
User Experience Design 用戶體驗設計	User Experience Designer, Interface Designer 用戶體驗設計師、介面設計師





COMPUTING FACILITIES
電腦設施

We provide state-of-the-art computing laboratories and facilities for our students. Some of the facilities the students may enjoy include:

我們提供多個尖端電腦實驗室給同學使用，其中包括:

- Decision Science Laboratory
  決策科學科技實驗室
- VR Centre – VR and Big Data Analytics Laboratory
  虛擬實境及大數據分析研究實驗室
- Computer Science Laboratory
  計算機科學實驗室
- Applied Statistics Laboratory
  應用統計實驗室
- Multi-media Laboratory
  多媒體教室

Additionally, multiple computing laboratories are available for students in every academic building on campus, including laboratories that are open 24 hours a day.

此外，每座教學大樓均設有多個電腦實驗室供同學使用，部分更為24小時開放。

INTERNSHIP PROGRAMME
實習計劃

The programme includes a Student Internship credit-bearing elective module. Students who secure a suitable internship may apply for the module and earn credits upon successful completion. The internship allows students to gain practical experience, put their knowledge into practice, develop practical skills, and better understand the industry. Some of the internship organisations include:

本課程設有學生實習計劃，並設為一門選修學科供同學選擇。學生若獲得適當的實習機會，可申請修讀此學科，並在圓滿完成實習後取得對應學分。實習讓學生累積職場實戰經驗、應用課堂所學、培養實踐技能，並深入了解行業運作，豐富學習體驗，為將來做好準備。過去部分實習機構包括：

- IBM
- NetDragon Websoft 網龍
- Caching Technology Limited
- Vico Capital Limited
- WWF – Hong Kong 世界自然基金會 (香港)
- Ernst & Young 安永
- IT Channel
- HKSAR Fire Services Department 香港消防處
- Hang Seng Bank 恒生銀行
- eClass
- YMCA
- DECENT
- ZynerSoft
- Hong Kong Observatory 香港天文台
- Top Level
- MTR







SCHOLARSHIPS
獎學金

- Entrance Scholarship 入學獎學金
- Dean's Award 院長入學獎學金
- Academic Excellence Scholarship 卓越學業獎學金
- eClass Scholarship in Applied Computing* eClass計算機應用獎學金*
- Overseas Learning Scholarships / Awards & Subsidies 海外學習獎學金 / 獎項及資助
- Self-financing Post-secondary Scholarship Scheme (SPSS) 自資專上獎學金計劃
- HSBC Hong Kong Scholarship 匯豐香港獎學金

** This scholarship is only available for Year 3 and Year 4 students of the programme 該獎學金只供本課程三年級及四年級學生申請*

For reference only. Please refer to our SAO website for the most updated list of available scholarships.
名單僅供參考。請參閱本校學生事務處網頁以獲取最新獎學金名單及資訊。

AWARD & CERTIFICATE
獎項及證書

Student Award (excerpt) 學生得獎 (節錄)

1. Menzies CNAC - Distinguished Performance Scholarship
2. AWS AI Hackathon Hong Kong - Participation Prize (Topic: Dynamic Urban Sandbox - Interactive Policy Simulation)
3. Tech Singularity 2025 – Smart City AI Contest - Champion (Tertiary Students Category) (Theme: 動態城市沙盒：互動政策推演未來環境)
4. Hong Kong Government - Self-Financing Post-Secondary Scholarship Scheme - Outstanding Performance Scholarship 2024/2025
5. Huawei ICT Competition 2024-2025 Hong Kong SAR Final - Potential Prize
6. 全國大學生統計建模大賽廣東賽區 - 3rd grade awards







Professional Recognition 專業資格

The programme provides financial support for students to obtain various IT certifications, such as Google, AWS, Microsoft, Oracle, and Java certifications, enhancing their competitiveness in the IT industry.

本課程為學生提供資助以考取各種資訊科技認證，例如Google, AWS, Microsoft, Oracle, Java等，提升學生在相關行業的競爭力。

Microsoft CERTIFIED Professional Developer

aws CERTIFIED

Java Certified Programmer

ORACLE Certified Professional

Google CERTIFICATIONS

STUDENT EXCHANGE PROGRAMME
學生交流計劃

We encourage our students to take part in our Student Exchange Programme, which allows the selected students to spend one semester in higher education institutions around the world. In the past few years, students from our department have embarked on fruitful exchange journeys to Asia Pacific and Europe.

我們與世界各地高等學府合作，讓同學到不同國家及地區進行長達一個學期之交流學習，擴闊視野。過去幾年，本系同學成功前往亞太及歐洲等地學習。

Asia-Pacific 亞太區

- Western Sydney University, Australia
- Australian Catholic University, Australia
- Tsinghua University, China
- Nanzan University, Japan
- Osaka International University, Japan
- Pukyong National University, South Korea
- National Taiwan University, Taiwan
- National Taipei University of Technology, Taiwan

NORTH AMERICA 北美洲

- Concordia University, Canada
- Illinois Wesleyan University, USA
- Susquehanna University, USA





EUROPE 歐洲

- University of Applied Sciences BFI Vienna, Austria
- University of East Paris, France
- SRH University Heidelberg, Germany
- University of Adger, Norway
- Laurea University of Applied Sciences, Finland
- Amsterdam University of Applied Sciences, the Netherlands
- Stockholm University, Sweden
- University of Huddersfield, UK

For reference only. Please refer to our SAO website for the most updated list of Student Exchange Programme partners.
名單僅供參考。請參閱本校學生事務處網頁以獲取最新學生交流計劃夥伴名單。

ENQUIRIES ON APPLICATION AND ADMISSION
入學申請查詢

General Entrance Requirements 入學要求

Year 1 Entry 入讀一年級

Eligible local applicants* should apply through the Joint University Programmes Admissions System (JUPAS). Applicants should obtain HKDSE examination results which meet the general entrance requirements, or possess equivalent qualifications. JUPAS code: JSSH03

*For details please refer to the SSSDP website: https://www.cspe.edu.hk/tc/sssdp/

合資格本地申請者*應透過「大學聯合招生辦法」申請。申請者須於香港中學文憑考試取得符合一般入學條件的成績，或具備同等學歷。JUPAS code: JSSH03

*詳情請參閱SSSDP網站： https://www.cspe.edu.hk/tc/sssdp/

Year 3 Entry 入讀三年級

Applicants can submit their applications through the HSUHK Undergraduate Application System. Applicants should have completed an Associate Degree or Higher Diploma in a related discipline, with a minimum cGPA of 2.5 on a maximum scale of 4.0.

申請者可透過恒生大學網上入學申請系統申請。申請者須修畢相關學科的副學士或高級文憑課程，累計cGPA達2.5或以上（按最高4.0積分點的比例）。

Information for Non-local Applicants 非本地生資訊

Applicants with International Qualifications 國際學歷申請人:

https://admission.hsu.edu.hk/undergraduate-admissions/year-1-entry/international-qualification/apply-here3/non-local-applicants/

Applicants with Mainland Qualifications 內地學歷申請人:

https://registry.hsu.edu.hk/hk/prospective-students/undergraduate/jee/

Tel 電話	: 3963 5710
Fax 傳真	: 3963 5553
Website 網頁	: https://cs.hsu.edu.hk
Programme Email 課程查詢	: ac@hsu.edu.hk
Admission Email 入學查詢	: ugadmission@hsu.edu.hk
Address 地址	: Hang Shin Link, Siu Lek Yuen, Shatin, NT 新界沙田小瀝源行善里

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.

香港恒生大學是一間於香港註冊成立之擔保有限公司。

Information updated as of January 2026.

有關資料更新至2026年1月。

QF Level: 5

QR Registration No.: 21/000430/L5

Registration Validity Period: 01/09/2026 to 31/08/2031

Programme Information
課程資訊