



Bachelor of  
Science (Honours) in

**APPLIED COMPUTING** (BSC-AC)

計算機應用（榮譽）理學士



Department of Computing

For year-one admission  
一年級入學適用



電子計算系  
**DEPARTMENT OF COMPUTING**  
香港恒生大學  
**THE HANG SENG UNIVERSITY  
OF HONG KONG**

# BSC (Hons) in Applied Computing (BSC-AC)

## 計算機應用(榮譽)理學士(BSC-AC)

From AI and mobile computing to e-commerce, computers and their applications have become the enabling technologies for modern societies and smart cities in the future. However, Hong Kong and the world at large are now facing a shortage of software development experts. Our Applied Computing degree programme aims to train computing and IT professionals for various sectors.

### Programme Characteristics

- Include traditional courses of Computer Science as well as hot topics such as Artificial Intelligence and Mobile Computing
- Secondary focus on user experience design, graphics and multi-media subjects
- Small class teaching: class size does not exceed 35 students for lab-based modules in general

人工智能、移動軟件、用戶體驗設計、雲端科技、電子商貿……近年計算機科學在多個應用範疇都取得了重大成果，而本港以至環球相關的科技人才卻相對缺乏。有見及此，香港恒生大學電子計算系開創了一門面向未來的「計算機應用理學士」學位課程，以滿足不同界別對電腦及資訊科技人才之渴求。

### 課程特色

- 涵括計算機科學 (Computer Science) 的傳統科目以及近年的熱門議題，比如人工智能 (Artificial Intelligence) 和移動App開發 (Mobile Computing) 等課程
- 輔以用戶體驗設計 (User Experience Design)、電腦圖像和多媒體等學科
- 實施小班教學，技術科目一般不多於35人一班

## PROGRAMME FEATURES 課程特色

BSC-AC is a career-oriented programme that focuses on the essential skills related to software development. The focus is on the practical aspect rather than theoretical. The programme is supplemented by subjects in various application areas.

BSC-AC是一門以職業需求為主導的課程。課程傳授與軟件開發相關的各種實用技能。課程強調實際應用而非理論，並包括各種應用學科。

### Computing and Software Development 電腦學及軟件研發

- Software Application Development  
程式編寫及軟件開發技巧
- Mobile Application Development  
移動軟件開發
- Web Application Development  
網站程式開發

### Computer Science 計算機科學

- Artificial Intelligence  
人工智能
- Big Data and Machine Learning  
大數據與機器學習
- Algorithm Design  
演算法設計
- Computer System and Computer Network  
電腦系統與網絡

### User Experience Design 用戶體驗設計

- Computer Graphic  
電腦圖像
- UX Design  
用戶體驗設計
- Multi-media Design  
多媒體設計



## ACADEMIC OVERVIEW 課程概覽

BSC-AC is a four-year degree programme. Students need to complete a total of 120 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。課程結構由主修科目、共同核心科目、商學教育科目及自由選修科目所組成。學生須於四年內修讀合共120學分。

### Common Core Modules

共同核心學科

General education, languages, and mathematics  
通識教育、語文、數學等

Free Electives  
自由選修科目

Business Education  
商學教育科目



BSC-AC Major Modules  
BSC-AC 主修學科

## ADMISSION INFORMATION 入學資訊

### Year-one entry (Local applicants)

- Applications should be submitted via JUPAS (Programme code: JSSH03)
- Process HKDSE or equivalent qualification (HKDSE Results 3322+2 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

### 一年級入學 (本地申請者)

- 請透過 JUPAS 系統申請 (JUPAS Code: JSSH03)
- 須具備香港中學文憑學歷 (HKDSE成績3322+2)
- 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，將優先考慮



### PROGRAMME INTRODUCTION VIDEO 課程介紹短片



# PROGRAMME STRUCTURE

## 課程架構

### YEAR 1



#### Major Studies 主修科目

##### Computing 電腦學

- Programming Methodology
- Programming and Data Structures
- Computer System
- Contemporary Information Technologies

##### Mathematics 數學

- Linear Algebra and Calculus

##### Language and Culture 語文及文化

- Freshman Chinese • University English (I & II)

##### Liberal and Social Studies 通識及社會

- General Education
- Introduction to Business

#### Major Studies 主修科目

##### Computing 電腦學

- Computer Network
- Discrete Mathematics and Algorithms
- Database Design and Management
- Graphic and Digital Design
- Advanced Programming

##### Language and Culture 語文及文化

- Putonghua for Business
- English (x2)
- Chinese Literature Appreciation

##### Liberal and Social Studies 通識及社會

- General Education
- Principles of Management

### YEAR 2



### YEAR 3

#### Major Studies 主修科目

##### Computing and User Experience Design 電腦學，用戶界面 (體驗) 設計

- Artificial Intelligence
- Computing Technologies in Web Applications
- Software Engineering
- Human-Computer Interaction
- Professionalism and Ethics in Computing
- Major Elective 1
- Major Elective 2

##### Liberal and Social Studies 通識及社會

- General Education (x2)
- Free Elective

### YEAR 4

#### Major Studies 主修科目

##### Computing and User Experience Design 電腦學，用戶界面 (體驗) 設計

- Senior Project (2 semesters)
- User Experience Designs
- Major Elective 3
- Major Elective 4

##### Liberal and Social Studies 通識及社會

- General Education (x3)
- Free Elective (x2)

#### Major Electives 主選修科

- Machine Learning Techniques and Applications
- Mobile Computing
- E-commerce Application Development
- Frontiers in Computing
- Introduction to Financial Computing
- Project Management
- Computer Animation for Interactive Content
- Multimedia Design for Organization
- Cognition in Everyday Life
- Digital Humanities and Chinese Computing
- Student Internship

(Any four of the above) (以上選讀四科)

## 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 2021 吳苡筠 – 2021年畢業生  
Quantitative Developer



The Hang Seng University of Hong Kong has given me the opportunity to explore my interests and turn them into a career. The courses that I have taken were relevant to my work requirements. I really appreciate that this university offers excellent learning environment to sustain my academic life.

I am also grateful for the friendships that I have made between my schoolmates and professors. Their encouragement has enchanted me to compete in UNESCO and STEM competitions. This university has given me a wonderful academic experience I would never have thought possible.

Kevin Brown, Graduate 2021 吳健銘 – 2021年畢業生  
IT Solutions Product Executive

## CAREER PATHWAYS

### 就業出路

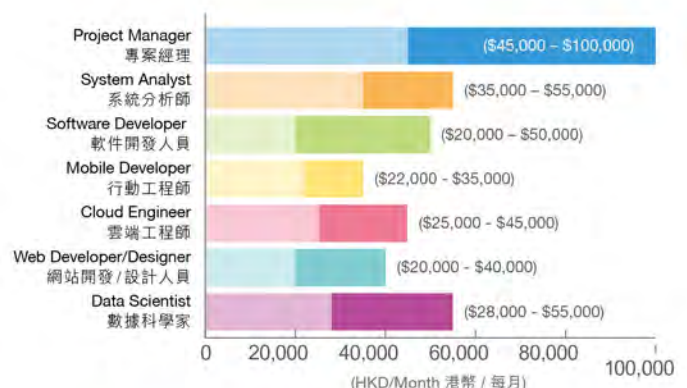
<b>Software Development</b> 軟件開發	Software Developer, Software Engineer, System Analyst, IT Consultant, Web Developer, Mobile Apps Designer, Entrepreneur 軟件開發人員、軟件工程師、系統分析師、資訊科技顧問、網頁開發人員、移動應用程式設計師、企業家
<b>Creative Industry and Multimedia</b> 創意產業及多媒體	Interface Designer, Video Game Developer, Computer Graphic Designer, Multimedia Content Developer 界面設計師、遊戲開發人員、圖像設計師、多媒體內容開發人員
<b>Business IT Solution</b> 商業IT方案	Solution Architect, Business Analyst 方案架構師、商業分析師
<b>Project Management (IT)</b> 項目管理 (IT)	IT Project Manager 資訊科技專案經理
<b>User Experience Design</b> 用戶體驗設計	User Experience Designer 用戶體驗設計師

## SALARY TREND

### 薪酬趨勢

IT talents in Hong Kong are in short supply. Young practitioners with 1-3 years experiences may enjoy a monthly salary of \$20,000 to \$50,000, while experienced senior professionals could earn up to \$100,000 per month.

香港目前電腦及創新科技人才供不應求，一至三年經驗的年輕從業員，月薪可達港幣\$20,000至\$50,000，而富經驗的高級專業人員更可達月入十萬元。



Data source 資料來源: The Adecco Hong Kong Salary Guide 2021



## 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：

- Deep Learning and Cognitive Computing Centre  
深度學習與認知計算中心
- 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
- IT Learning Centre  
資訊科技學習中心
- 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. Successfully enrolled students may receive on-the-job trainings from our industrial partners during summers. Internship projects help students put textbook knowledge into practice, making the learning experience even more rewarding and challenging. Some of the internship opportunities include:

本課程設有學生實習計劃，並設為一門選修科目供同學選擇。在此計劃下，成功取錄的同學可以在暑假期間前往不同機構賺取寶貴的工作經驗，為將來做好準備，完成實習後更可以獲取相關學分。過去部分實習機會包括：

- 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
- Hang Seng Bank 恒生銀行
- Broad Learning Education 博文教育
- YMCA
- DECENT
- ZynerSoft
- Hong Kong Observatory 香港天文台



## 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
- Scholarship for Principal Recommended Admission Scheme 校長推薦入學計劃獎學金
- eClass Scholarship in Applied and Human-Centred Computing\* eClass應用及人本計算學獎學金\*
- 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 2 and Year 3 students of the programme 該獎學金只供本課程二年級及三年級學生申請



## CAMPUS LIFE 校園生活

The Hang Seng University of Hong Kong (HSUHK) has been developing rapidly. The campus is equipped with brand-new facilities, including computers, sports and accommodation facilities.

香港恒生大學（恒大）發展迅速，並設有全新的校園設施，包括多項電腦、體育和住宿設施。

The HSUHK Jockey Club Residential Colleges with 1,200 places benefit students of the dynamic and inspiring hall life education programmes offered at HSUHK. In addition to the Residential Colleges, 206 places are provided at the Old Hall where residents can enjoy residential life.

香港恒生大學賽馬會住宿書院提供1,200個宿位，加上原有可提供206個宿位的元舍堂，可讓更多同學享受充滿活力的宿舍生活。

## 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，本系同學成功派往亞太及歐洲等地。

### 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

### 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

### NORTH AMERICA 北美洲

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

Exchanging in the Finland Laurea University of Applied Science was an unforgettable experience. This unique journey not only allowed me to enjoy university life in an overseas institute, but also gave me the opportunity to build a global network of contacts and a deeper understanding of different cultures, as well as allowed me to travel to many parts of Europe by myself. It makes me more confident and learn to face different challenges independently.

到芬蘭Laurea University of Applied Science 交流是我畢生難忘的經歷。這個獨特旅程不單讓我享受海外大學的學習生活，更讓我有機會建立世界性的人脈網絡，令我更深入瞭解到不同國家的文化，讓我可以獨自穿梭歐洲多地，使我變得更有自信和學習獨立面對不同挑戰。

**Leon Cheng (Student Exchange Programme 2020) 鄭灝朗**  
(2020年度學生交流計劃)





## ENQUIRIES ON APPLICATION AND ADMISSION 入學申請查詢

### Year 1 Entry

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**

### 入讀一年級

本地申請者可透過「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**

### Year 3 Entry\*

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.

### 入讀三年級\*

申請者可透過恒大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。

\*Senior year (Year-3) entries on or before 2022 will be admitted under the programme title Bachelor of Arts (Hons) in Applied and Human-Centred Computing. Please refer to the programme website for information.

2022年或以前入學的高年級（三年級）學生將會以應用及人本計算學（榮譽）文學士課程名稱收錄，詳情請參閱課程網站。

### Information for Non-local Applicants 非本地生資訊

Applicants with International Qualifications 國際學歷申請人:

<https://registry.hsu.edu.hk/prospective-students/undergraduate/international-qualifications/>

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 5555
Fax 傳真	: 3963 5553
Website 網頁	: <a href="https://comp.hsu.edu.hk">https://comp.hsu.edu.hk</a>
Programme Email 課程查詢	: <a href="mailto:computing@hsu.edu.hk">computing@hsu.edu.hk</a>
Admission Email 入學查詢	: <a href="mailto:ugadmission@hsu.edu.hk">ugadmission@hsu.edu.hk</a>
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。

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有關資料更新至2021年9月。

QR Registration No.: 21/000430/L5

Registration Validity Period: 01/09/2021 to 31/08/2026

