

Bachelor of Arts (Honours) in
**APPLIED AND HUMAN-CENTRED
COMPUTING** (BA-AHCC)

應用及人本計算學（榮譽）文學士



COMPUTING WITH A HUMAN TOUCH

Department of Computing

For Senior Year Entry
高年級入學適用



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

BA-AHCC - A NEW AND EXCITING DEGREE PROGRAMME IN COMPUTING

嶄新刺激的電腦學學士課程 – BA-AHCC

From traditional software development to mobile computing, from e-commerce to artificial intelligence, Hong Kong is facing a shortage of software development expertise. Our programme aims to train computing professionals in the following areas:

Computing and Computer Science

Our programme provides solid training in computer programming, software development and related topics in computing. Students can also learn about the latest trend in computer science, including AI and e-commerce, and other areas in the frontier of computing and information technology.

Human-Centred Computing

Our programme provides supplementary knowledge of graphic design and human-computer interaction. Students will learn to develop software products that are user-friendly and attractive.

從傳統的軟件開發到移動軟件，從電子商貿到人工智能，本港現時軟件科技人才十分缺乏。本課程專注於培養學生以下的專業知識：

電腦學 (Computing) 及電腦科學 (Computer Science)

課程提供實用的程式編寫及軟件開發培訓，以及相關的電腦學科目。同時學生可以學到電腦科學的最新發展，包括人工智能，電子商貿及其他電腦學及資訊科技新領域上的知識。

人本計算學 (Human-Centred Computing)

本課程輔以圖像設計及人機互動 (Human-Computer Interaction) 等科目。學生可以學會開發出美觀實用並具競爭優勢的軟件產品。

Words from Our Graduates 畢業生的話

I am very thankful to this place, where I had lots of joyful learning experiences. I had a lot of opportunities to develop my talents. The valuable chances to visit banks and companies helped me get familiar with the current market. Last summer, I joined a cultural exchange programme and completed my internship. Albert Einstein once said, "Education is what remains after one has forgotten everything he learned in school". I believe what we earned from this place is far more than what we forgot.

Chan Wing Yan, Graduate 2020

I am glad to have studied in the computing programme in the HSUHK. This pioneering programme was launched in 2016. Here, the professors provided me with a lot of guidance and opportunities to participate in internships and competitions. I am grateful for the support I got from the university. I enjoyed learning at the HSUHK. My studies here have been transformed into my experiences and better equipped me.

Tai Shing Pong, Graduate 2020



PROGRAMME FEATURES 課程特色

AHCC is a career-oriented programme that focuses on the essential skills related to software development, with selected traditional and advanced topics from computing, computer science, as well as user-interface design. The focus is on the practical aspect rather than theoretical. The programme is supplemented by subjects in various application areas.

AHCC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，內容選自電腦學、電腦科學、用戶介面設計等，從基本到進階的各種科目。課程強調實際應用而非理論，並包括各種應用學科。



ACADEMIC OVERVIEW 課程概覽

AHCC is a four-year degree programme. Students need to complete a total of 126 credits from a four-year curriculum consisting of Major modules, Common Core modules, Business Education modules and Free Elective modules.

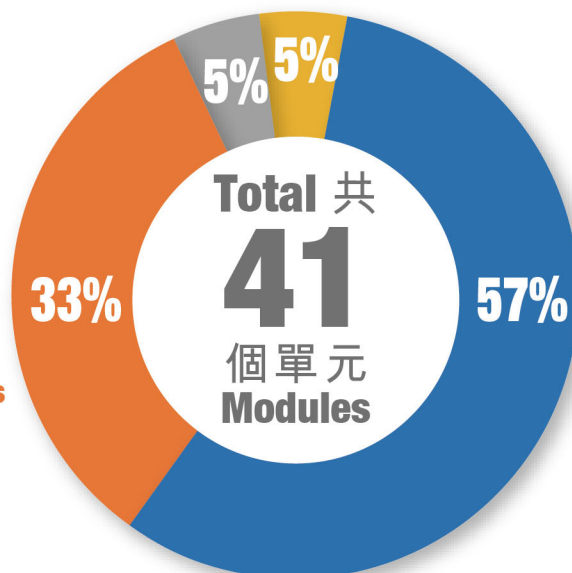
本課程為四年制本科課程。課程結構由主修科目、共同核心科目、商學教育科目及自由選修科目所組成。學生須於四年內修讀合共126學分。

2 Free Electives
自由選修科目

2 Business Education
商學教育科目

14 Common Core Modules
共同核心學科

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



23 AHCC Major Modules
AHCC 主修學科



PROGRAMME STRUCTURE

課程架構

YEAR 1

Computing 電腦學

- Programming Methodology
- Programming and Data Structures
- Computer System

Mathematics 數學

- Linear Algebra and Calculus

Language and Culture 語文及文化

- Freshman Chinese
- English (x2)

Liberal and Social Studies 通識及社會

- General Education
- Introduction to Business
- Psychology

YEAR 2

Computing 電腦學

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

Language and Culture 語文及文化

- Putonghua for Business
- English for Business Communication
- Chinese Literature
- Chinese Culture

Liberal and Social Studies 通識及社會

- General Education (x2)
- Principle of Management

YEAR 3

Computing and Human-Centred Computing 電腦學，人本計算學

- Computing Technologies in Web Applications
- Software Engineering
- Human-Computer Interaction
- Professionalism and Ethics in Computing
- Digital Humanities and Chinese Computing
- Major Elective 1
- Major Elective 2
- Major Elective 3

Liberal and Social Studies 通識及社會

- General Education Electives (x2)
- Free Elective

YEAR 4

Computing and Human-Centred Computing 電腦學，人本計算學

- Senior Project (2 semesters)
- User Experience Designs
- Internet Culture
- Major Elective 4
- Major Elective 5
- Major Elective 6

Liberal and Social Studies 通識及社會

- General Education Electives (x2)
- Free Elective

Major Electives 主選修科

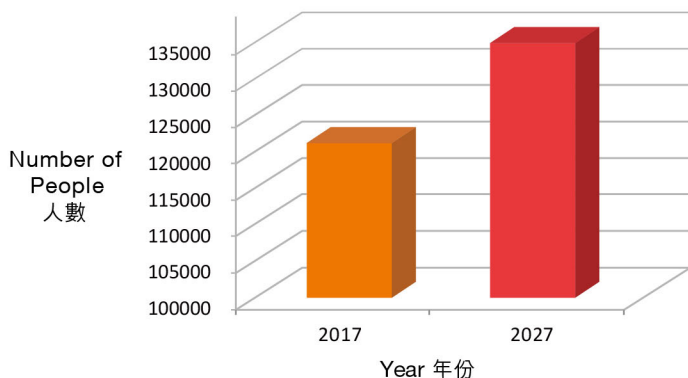
- Artificial Intelligence
- Machine Learning Techniques and Applications
- Mobile Computing
- E-commerce Application Development
- Frontiers in Computing
- Introduction to Financial Computing
- Computer Animation for Interactive Content
- Multimedia Design for Organisation
- Project Management
- Student Internship
- Cognition in Everyday Life
- Sensation and Perception

(Six modules out of this list)

(以上修讀六科)

MANPOWER REQUIREMENT – IT AND COMMUNICATION SECTOR

資訊科技及通訊人才需求



The demand for IT talents keeps surging. There is a shortage of IT talents in Hong Kong. There are a lot of career opportunities after graduation.

近年資訊科技人才的需求快速增長，本港的資訊科技人才供不應求。學生畢業後可獲多方面的就業機會。

(Data source: OGCIO, 資料來源: 政府資訊科技總監辦公室)

CAREER PATHWAYS

就業出路

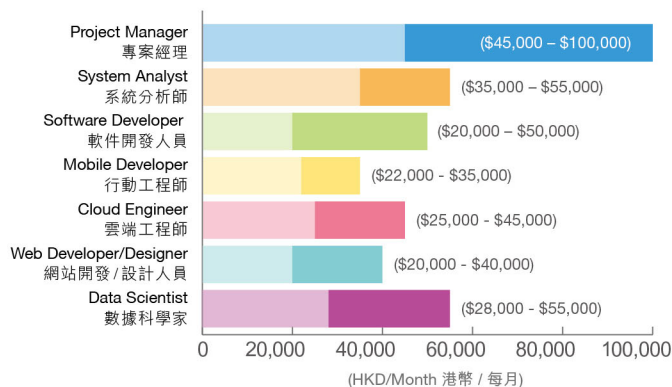
| | |
|---|---|
| Software Development 軟件開發 | Software Developer, Software Engineer, System Analyst, IT Consultant, Web Developer, Mobile Apps Designer, Entrepreneur 軟件開發人員、軟件工程師、系統分析師、資訊科技顧問、網頁開發人員、移動應用程式設計師、企業家 |
| Creative Industry and Multimedia 創意產業及多媒體 | Interface Designer, Video Game Developer, 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 |
| IT Architecture IT架構 | IT Architect 資訊科技架構設計師 |
| Project Management (IT) 項目管理 (IT) | IT Project Manager 資訊科技專案經理 |
| Information Security 資訊安全 | Information Security Officer 資訊保安主任 |
| Software Quality Assurance 軟件質量保證 | Software Quality Assurance Professional 軟件質量保證專業人員 |
| Education and Research 教育及科研 | Further Education (Higher Degrees), Teacher (after obtaining PDGE), Research and Development (R&D) Personnel 高等學位、教師 (需要教育文憑)、研究開發人員 |

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.

香港目前電腦及創科人才供不應求，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：

- 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
- 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

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

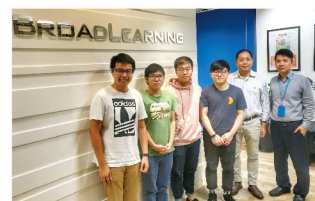
此外，每座教學大樓均設有多個電腦實驗室供同學使用，部分更為24小時開放。

INTERNSHIP PROGRAMME 實習機會

We maintain good cooperation with the industry to provide internship opportunities for our students. The on-the-job training and tutors' supervision of internship projects help students put textbook knowledge into practice, making the learning experience even more rewarding and challenging. Some of the internship opportunities include:

我們一直和業界保持聯繫，為學生提供多個實習機會和在職培訓，讓學生能學以致用，印證課堂所學，為將來就業做出充分準備。實習機會包括：

- IBM
- NetDragon Websoft 網龍
- Caching Technology Limited
- HK01 香港01
- 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
- Academic Accomplishment Scholarship 優異學業獎學金
- 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 BA-AHCC Year 2 and Year 3 students 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

HSUHK has established exchange partnerships with overseas institutions for students to gain international exposure.

恒大與海外學府合作，讓學生到海外交流學習，擴闊視野。

Asia-Pacific 亞太區

- Western Sydney University, Australia
- Australian Catholic University, Australia
- Tsinghua University, China
- Fudan 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
- Albright College, USA
- Cottey College, USA
- Gordon College, USA
- and more...





ENQUIRIES ON APPLICATION AND ADMISSION 入學申請查詢

Year 3 Entry

Applicants can submit their applications through the HSUHK Online Application System. Applicants should fulfill the following admission requirements:

1. Students should have studied in a recognised local or overseas higher institution and completed an Associate Degree or Higher Diploma in a related discipline;
2. Achieving a minimum cumulative GPA (cGPA) of 2.50 or above (on a 4.0 scale), or equivalent.

入讀三年級

申請者可透過恒大大網上入學申請系統申請。申請者須符合以下入學要求：

1. 修畢本地或海外認可院校所開辦的相關副學士或高級文憑課程。
2. 累計平均積點 (Cumulative GPA) 最低達2.5，或具同等學歷。

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|----------------------|--|
| Tel 電話 | : 3963 5555 |
| Fax 傳真 | : 3963 5553 |
| Website 網頁 | : http://www.hsu.edu.hk https://comp.hsu.edu.hk |
| Programme Email 課程查詢 | : computing@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。

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