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

Bachelor of Science (Honours) in APPLIED COMPUTING (BSc-AC)

计算机应用(荣誉)理学士



BSc (HONS) IN APPLIED COMPUTING (BSc-AC)
计算机应用(荣誉)理学士(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.

本课程涵盖计算机科学、人工智能、机器学习和数据分析等尖端技术，以及用户界面、用户体验设计等软件开发的关键技能。课程同时提供金融科技、多媒体设计等选修方向，课程体系由基础到进阶循序渐进。有别于传统计算机科学课程，我们更强调实用性，致力培养学生的创新思维与实战能力，帮助学生在快速变迁的科技浪潮中从容应对各种挑战。







ADMISSION INFORMATION
招生信息

- 香港恒生大学为自主独立招生，不参加全国统招，学生可直接通过恒生大学网上入学申请系统报读本课程。申请人报读恒生大学并不影响申请人在统招的选择。
- 香港恒生大学遵循公平竞争、公正选拔、公开程序、综合评价、择优录取等原则，进行招生工作。
- 招生地区（按笔划序）
  广东、广西、上海、山东、山西、天津、云南、内蒙古、北京、宁夏、四川、辽宁、甘肃、吉林、安徽、江西、江苏、西藏、河北、河南、青海、重庆、海南、浙江、陕西、湖北、湖南、贵州、新疆、黑龙江和福建。招生范围如有变更，将以教育部之指引为准。
- 入读本科课程一年级之应届高考生（包括复读生）须达到下列最低入学要求：
  - 本科分数线
    - 至少达到所属省市报读第一批本科分数线/ 特殊类型招生分数线/ 对应分数线；或
    - 至少达到所属省市报读第二批本科分数线/ 本科批次线/ 对应分数线，在学术或非学术领域有杰出表现
  - 考生报考的外语语种必需为英语，以150分为满分计算，英语成绩需达100分或以上；
    - 若未能达到以上英语成绩要求，则会考虑以下其中一项国际英语考试的成绩：
      - 雅思（IELTS）5.5或以上；或
      - 托福（TOEFL）纸笔测验525分、网络化测验70分或以上

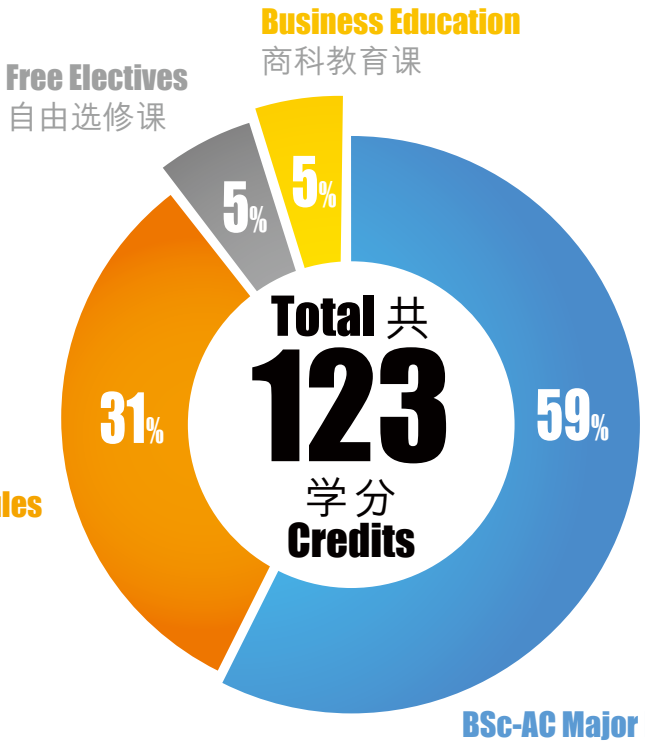
    *不接受任何家考的线上考试，以及家庭版托福考试。
- 申请者必须参加面试
- 对计算机及信息科技感兴趣

PROGRAMME INTRODUCTION VIDEO 课程介绍短片

ACADEMIC OVERVIEW
课程概览

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.

BSc-AC是四年制本科课程。课程结构由专业课、共同核心课、商科教育课及自由选修课组成。学生须在4年内修满123学分。



3 SPECIALIZATIONS 专业范畴

Students can choose to study in their specialization based on their own interests and strengths
学生可根据自身兴趣及专长选读专业范畴



Software Engineering 软件开发

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



Artificial Intelligence & Machine Learning
人工智能及机器学习

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



UI/UX Design 用户体验及界面设计

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

PROGRAMME STRUCTURE
课程结构

YEAR 1

Major Studies 专业课
- Contemporary Information Technologies
- Programming Methodology
- Programming and Data Structures
- Computer System
- Fundamental Mathematics for Computing
- Discrete Mathematics and Probability

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

Business Education 商科教育课
- Introduction to Business

YEAR 2

Major Studies 专业课
- Advanced Programming
- Algorithms
- Computer Network
- Database Design and Management
- Graphic and Digital Design

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

Business Education 商科教育课
- Principles of Management

YEAR 3

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

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

YEAR 4

Major Studies 专业课
- Senior Project (2 semesters)
- User Experience Designs
- Major Elective (x2)

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

Free Electives 自由选修课
- Free Elective (x2)

Major Electives 专业选修课
- 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 以上选修5门)

WORDS FROM OUR GRADUATES
毕业生的话



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 吴苡筠 - 毕业生
Quantitative Developer



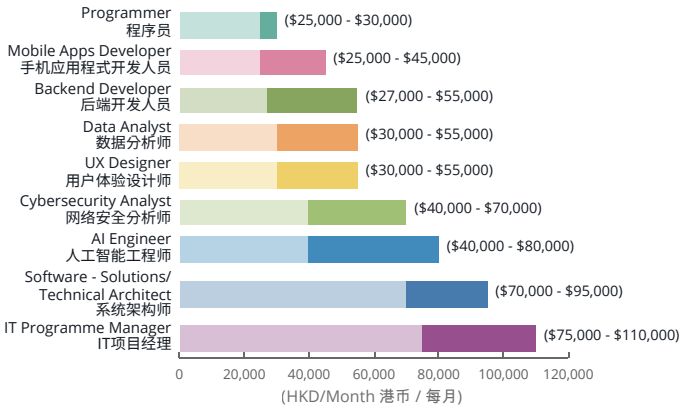
"Aim higher, even if you stumble, you will still perform better than you once did." This motto has guided me throughout my four years at HUSHK. Starting with no programming knowledge, I embraced every opportunity HSUHK offered, serving as the financial secretary of the student association, participating 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 李传轩 - 毕业生
Stock Trading System Developer

SALARY TREND
薪酬趋势

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.

香港目前计算机及创新科技人才供不应求，年轻从业人员月薪可达港币$25,000至$55,000，而经验丰富的高级专业人员月收入可高达港币$90,000。



Data source 资料来源：The Adecco Hong Kong Salary Guide 2026

CAREER PATHWAYS
就业出路

AI Industries 人工智能产业	AI/ML Engineer, Deep Learning Specialist, Forward Deployed Engineer (FDE) 人工智能/机器学习工程师、深度学习专家、前线部署工程师
Software Development 软件开发	Software Developer, Software Engineer, System Analyst, IT Consultant, Web Developer, Mobile Apps Designer, Entrepreneur 软件开发师、软件工程师、系统分析师、信息技术顾问、网页开发师、手机应用程序设计师、企业家
Creative Industry and Multimedia 创意产业及多媒体	Video Game Developer, Computer Graphic Designer, Multimedia Content Developer 电子游戏设计师、计算机图像设计师、多媒体内容开发人员
Business IT Solution 商业IT方案	Solution Architect, Business Analyst 方案架构师、商业分析师
Project Management (IT) 项目管理 (IT)	IT Project Manager 信息技术项目经理
User Experience Design 用户体验设计	User Experience Designer, Interface Designer 用户体验设计师、界面设计师





COMPUTING FACILITIES
电脑设备

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

我们提供多个顶尖电脑实验室给同学使用，其中包括：

- Decision Science Laboratory
  决策科学科技实验室
- VR Centre – VR and Big Data Analytics Laboratory
  虚拟现实及大数据分析研究实验室
- Computer Science Laboratory
  计算机科学实验室
- Applied Statistics Laboratory
  应用统计实验室
- Multi-media Laboratory
  多媒体实验室

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，每座教学大楼都设有多个电脑实验室供同学使用，更有24小时开放实验室。

INTERNSHIP PROGRAMME
实习计划

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:

本课程设有学生实习计划，并设为一门选修科目供同学选择。学生若获得适当的实习机会，可申请修读此科目，并在圆满完成实习后取得对应学分。实习让学生累积职场实战经验、应用课堂所学、培养实践技能，并深入了解行业运作，丰富学习体验，为将来做好准备。过去部分实习机构包括：

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







SCHOLARSHIPS
奖学金

- Entrance Scholarship 入学奖学金
- Academic Excellence Scholarship 卓越学业奖学金
- eClass Scholarship in Applied Computing* eClass计算机应用奖学金*
- Overseas Learning Scholarships / Awards & Subsidies 海外学习奖学金 / 奖项及资助
- Self-financing Post-secondary Scholarship Scheme (SPSS) 自资专上奖学金计划

** This scholarship is only available for Year 3 and Year 4 students of the programme 该奖学金只供本课程三年级及四年级学生申请*

For reference only. Please refer to our SAO website for the most updated list of available scholarships.
名单仅供参考。请参考本校学生事务处网站以获取最新奖学金名单及信息。

AWARD & CERTIFICATE
奖项及证书

Student Award (excerpt) 学生得奖 (节录)

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: 动态城市沙盒：互动政策推演未来环境)
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. 全国大学生统计建模大赛广东赛区 - 3rd grade awards







Professional Recognition 专业资格

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.

本课程为学生提供资助以考取各种资讯科技认证，例如Google, AWS, Microsoft, Oracle, Java等，提升学生在相关行业的竞争力。

Microsoft CERTIFIED Professional Developer

aws CERTIFIED

Java Certified Programmer

ORACLE Certified Professional

Google CERTIFICATIONS

STUDENT EXCHANGE PROGRAMME
学生交流计划

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.

我们与世界各地高等学校合作，让同学到不同国家及地区进行长达一个学期的交流学习，开阔视野。过去几年，本系同学成功前往亚太及欧洲等地学习。

Asia-Pacific 亚太区

- 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 欧洲

- 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.
名单仅供参考。请参考本校学生事务处网站以获取最新学生交流计划夥伴名单。



ENQUIRIES ON APPLICATION AND ADMISSION
入学申请查询

Applicants can submit their application through the HSUHK Online Application System. For further enquiries, please contact the Registry.
申请者可透过香港恒生大学网上入学申请系统申请。如有进一步查询，请联络本校教务处。

Information for Non-local Applicants 非本地生信息
Applicants with International Qualifications
https://admission.hsu.edu.hk/undergraduate-admissions/-year-1-entry/international-qualification/apply-here3/non-local-applicants/

Applicants with Mainland Qualifications 内地学历申请人
https://registry.hsu.edu.hk/hk/prospective-students/undergraduate/jee/

Tel 电话	: 3963 5710
Fax 传真	: 3963 5553
Website 网址	: https://cs.hsu.edu.hk
Programme Email 课程查询	: ac@hsu.edu.hk
Admission Email 入学查询	: ugadmission@hsu.edu.hk
Address 地址	: Hang Shin Link, Siu Lek Yuen, Shatin, NT 新界沙田小沥源行善里

In case of any discrepancy between the English and Chinese versions of the contents of this pamphlet, the English version shall prevail.
本课程简介内容以英文版本为准，中文翻译仅供参考。

The Hang Seng University of Hong Kong is incorporated in Hong Kong with limited liability by guarantee.
香港恒生大学是一间于香港注册成立的担保有限公司。

Information updated as of January 2026.
有关资料更新至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
课程资料