B.Sc. (Hons) Computer Science

B.Sc. (Hons) Computer Studies

City University of Hong Kong
Our Department

- Established in 1984
- Our Mission:
  - “To provide comprehensive education to equip our graduates with technical skills and professional knowledge to play leading roles in the computing industry”
Our Strengths

- CityU ranked among top 200 universities in the world!
  - The Times Higher Education Supplement
- Faculty of Business among top 100 business schools in the world
  - Among top 5 within Asia Pacific
Our Strengths

- Ranked No. 1 in HK by employers
  - CityU graduates ranked 1st in IT literacy
  - Among the highest in work attitude
    - 2 attributes rated as most important by employers
    - HK Education and Manpower Bureau
Our Strengths

- Over 900 FT academic staff, mostly PhDs
  - Plus 500 research staff, many are PhDs
  - Hundreds of IT technical staff
- CityU received the largest amount of research funding from UGC in 2004–2005 out of all the universities in HK!
  - Representing over 42.5% of total funding
Our Staff

- Close to 90 staff members:
  - 2 Chair Professors
  - 3 Professors
  - 17 Associate Professors
  - 16 Assistant Professors, Lecturer & Instructors
  - 29 research staff
  - 10 lab technicians & officers
  - 10 general office clerical staff
CS Staff Achievements

- Local/international awards:
  - Dr Wenyin Liu – “ICDAR Outstanding Young Researcher Award" Int’l Assoc of Pattern Recognition (IAPR) 2003
  - Prof Horace H S Ip, Dr Ken C K Law, and Dr S L Chan – “2003 HK Awards for Industry, Technological Achievement – Certificate of Merit”, Oct 2003
  - Prof Horace Ip’s Body Brush – prestigious Prix Ars Electronica 2002
  - Prof Horace Ip’s CASSOS – “IT Excellence Awards” (Silver Award) 2002
  - Prof Xiaohua Jia – “Cheong Kong Professor” by China Education Ministry in 2001
    - most prestigious scheme to award young and talented Chinese scholars all over the world
CS Staff Achievements

- **Local/international awards:**
  - Dr Andy Chun – “Innovative Applications of AI Award” from American Association for Artificial Intelligence in 1999 and 2000
    - one of the most prestigious AI awards in the world. Few have ever received it twice.
  - Dr C K Poon – “Best Newcomer Paper Award” at the 8th International Conference on Database Theory (2001)
  - Dr Sam Kwong – “Best Paper Award” at BioInformatics (1999)
  - Mr M T Chan – 2002, the “Highly Commended Award” from the Literati Club of Emerald, publisher of the Journal, "Information Management & Computer Security"
CS Staff Achievements

- Local/international awards:
  - Prof Xiaotie Deng’s work with Papadimitriou and Safra has been named “important work in new area” in the ACM SIGACT 2001/2002 annual report
  - Dr Ken Law was a member of the team that won the IT Excellence Awards 2002 – HK Computer Society
  - Dr Wenyin Liu – IAPR TC2 (Graphics Recognition) contest won First Place in the dashed line recognition contest.
CS Staff Achievements

- **Local/international awards:**
  - Prof Isaac Y K Chan has patent technology licensed to and being used by a broadband provider in Hong Kong and its overseas broadband/Telco partners.
  - Mr M T Chan and Dr L F Kwok received in 2002 the Highly Commended Paper Award from the Literati Club of Emerald, publisher of the Journal, "Information Management & Computer Security".
  - Dr Wenyin Liu won “ICDAR Outstanding Young Researcher Award", International Association of Pattern Recognition (IAPR), 2003
Our Students

- Over 1,300 students
- Won numerous local/international awards
  - 1st Faculty Medal (2003) Winner
  - Gold Award (Wireless Internet category) HKIE Mobile Multi-media Communications Design Contest 1999/2000
  - IT Contest 2001 – Winner of Practical Project Competition, Winner of the XML Project Award, Second Runner-up in IT Quiz
CS Student Achievements

More Awards:

- Microsoft Asia MVP (Most Valuable Professional) Award 2002
- Gold Award – 3rd HSBC Young IT Entrepreneur Contest 2003
- HK Computer Game–Maker Challenge 2003 – Silver Award
- IEE HK Younger Member Section Contest 2003 – first runner-up
- 8th China National Challenge Cup – 3rd Prize
Our Programmes

- **Undergraduate**
  - BSc (Hon) Computer Science (UGC)
  - BSc (Hon) Computer Studies
  - BSc (Hon) Creative Media (UGC)
  - BSc (Hon) Computer in Education

- **Graduate**
  - MSc in Computer Science
  - MSc in Computing
  - MSc in E-Commerce
  - MPhil in Computer Science
  - PhD in Computer Science
Today’s Talk:

- **BSc (Hon) Computer Science**
  - 電腦科學(榮譽)理學士
  - UGC-funded
  - Special “sandwich program”
    - 2yr study + 1yr placement (專業實習) + final yr study

- **BSc (Hon) Computer Studies**
  - 電腦學(榮譽)理學士
  - Self-funded
  - 3 yr – no placement needed
    - Combined mode – full-time/part-time
SE Stream 軟件工程組

Courses:

- Software Quality Management
  軟件質素管理
- Object-Oriented Methodology
  物件導向方法論
- Software Testing and Maintenance
  軟件測試與維護
- Internet Application Development
  互聯網應用開發
 Systems & Network 系統與網絡組

Courses:

- Distributed Systems
  分佈式系統
- Internet and Distributed Systems Prog
  互聯網及分佈式系統程式編寫
- Computer Architecture
  電腦體系
- Internet Application Development
  互聯網應用開發
Courses:

- Multimodal Interface Design
  多模態介面設計
- Computer Graphics
  電腦圖像處理
- Multimedia Technologies & Applications
  多媒體技術及應用
- Internet Application Development
  互聯網應用開發
Courses:

- Internet Security & E-Commerce Protocols
  互聯網安全及電子商務協定
- Topics on Computer Security
  電腦安全題目
- Information Security and Management
  信息安全及管理
- Internet Application Development
  互聯網應用開發
Academic Background 學科背景

<table>
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<th>Year</th>
<th>JUPAS (理科數學組)</th>
<th>JUPAS (理科非數學組)</th>
<th>JUPAS (其他)</th>
<th>non-JUPAS</th>
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<td>2004</td>
<td>44%</td>
<td>20%</td>
<td>25%</td>
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<td>48%</td>
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<tr>
<td>2002</td>
<td>33%</td>
<td>26%</td>
<td>30%</td>
<td>11%</td>
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Qualifications 申請資格

High Diploma/Associate Degree
高級文憑

- 兩年制修畢一年多
- 三年制修畢二年

並獲得良好成績

可申請
本課程
一年級

高級文憑畢業

可申請本課程二年級
(毋需修讀第一年的科目)
**案例1:** 梁同學以GPA=4.0的成績完成理工副學士 (info. tech.) 第一年的課程。他已被錄取為本課程一年級學生。

**案例2:** 林同學以GPA=3.3的成績完成港大副學士 (info. tech.) 所有課程。他已被錄取為本課程二年級學生。

**案例3:** 吳同學以GPA=3.47的成績完成城大副學士 (computer studies) 第一年的課程。他已被錄取為本課程一年級學生。

**案例4:** 陳同學以平均成績 (約)75分完成IVE高等文憑 (web tech.) 第一年的課程。她已被錄取為本課程一年級學生。
Articulation through Credit Transfer – 36 credit units
被錄取的學生可被獲豁免約36個學分的課程

Average duration of study:
一般同學預計畢業所需時間:
  1 to 2 years
  + 1 year placement 一年專業實習 (for BSc Computer Science only)
Similar to graduates

實習期待遇已接近一般畢業生
Study Tour 學術交流活動

2004 – Silicon Valley

- 參觀著名學府：Stanford 史丹福大學、UC Berkeley 加州大學柏克萊分校
- 參觀科研機構：NASA Ames Research Center, Silicon Graphics Inc., Sun Microsystems Inc., Pixar Animation Studios
- 瞭解當地文化及科研發展
- 體驗當地生活
- 本交流團獲政府工商及科技局贊助
Study Tour 學術交流活動

- Beijing 2004
  - 與祖國頂尖大學學子作學術交流
  - 到訪祖國電腦企業的生產線
  - 了解最新的軟件研究項目

- Australia 2002
  - 實地參觀澳洲兩所大學科技及設施
  - 了解澳洲大學生活
  - 體驗澳洲生活模式
Exchange Program 學生交換計劃

- 優秀學生可獲選派往外國大學就讀一個學期，從而
  - 豐富學生學習經驗
  - 擴闊學生視野
Graduate Statistics

- Competitive salary
- Diverse range of career options
Average Salary 畢業生平均月薪

<table>
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<tr>
<th>年份</th>
<th>平均月薪 (HK $)</th>
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<tr>
<td>1999</td>
<td>12,272</td>
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<tr>
<td>2000</td>
<td>15,094</td>
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<td>2002</td>
<td>10,897</td>
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<td>2003</td>
<td>9,132</td>
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Career Options 一般受聘之職位

- Application/System Programmer
  應用 / 系統程式編寫員
- Web Programmer
  互聯網程式編寫員
- Web Developer
  網站開發員
- Technical Support Engineer
  技術支援工程師
- System Support Analyst
  系統支援分析員
- Network Administrator
  網絡管理員
- Software Engineer
  軟件工程師
- Database Administrator
  數據庫管理主任
- User Support Officer
  用家支援主任
- IT Training Officer
  資訊科技訓練主任
Business Nature – 工作機構性質(‘03)

- Commercial (68.1%)
- Education (10.1%)
- Manufacturing (10.1%)
- Non-Profit (7.2%)
- Construction (2.9%)
- Government (1.4%)
For More Information

- Visit our departmental website:
  - http://www.cs.cityu.edu.hk