BEng in Computer Science
What is Computer Science?

Computer science is not just about programming and studying the computers, but rather it is about **problem solving** – the study of algorithms and information representation to solve real-life problems.

“Almost every major challenge facing our world is **turning to computing for a solution**, from conquering disease to eliminating hunger, from improving education to protecting the environment.” by Prof. Eric Roberts of Stanford University, the co-Chair of ACM’s Education Board at 2007
Programme Structure

**Flexibility**

- BEng(CompSc)
- BEng(CompSc) + minor
- BEng(CompSc) + 2 minors
- BEng(CompSc) + BBA
- BEng(CompSc) + 2nd major

**UG5 Requirements**

- Chinese Course
- English Courses
- CC Courses

**CS Professional Core**

- 144 credits

**General Engg. Courses**

- CS Core Courses
- CS Elective Courses
- Final Year Project
- Internship

**Total Credits**

- 54 credits

**Free Electives**

- \( \geq 42 \) credits

**Minor**

- \( \geq 36 \) credits

**2nd Major**

- \( 72 \leq x < 96 \)

**Double Degree**

- \( 54 \) credits

**2 Minors**

- \( 72 \leq x < 96 \)
Minors & 2nd majors

Minor

• Any minor except
  – Minor in CS

2nd Major

• Any major except
  – Major in CS
  – Major in Computing & Data Analytics
  – Major with a total loading of 96 credits
    • E.g., Science Majors

Check this out: Academic Advising Office (http://aaol.hku.hk/)
Sample Study Plans

- BEng(CompSc)
- BEng(CompSc) with Minor in Finance
- BEng(CompSc) with Minor in Information Systems
- BEng(CompSc) with Minor in Mathematics
- BEng(CompSc) with Minor in Risk Management
- BEng(CompSc) with Minor in Computational & Financial Mathematics
- BEng(CompSc) with Minor in Japanese Language
- BEng(CompSc) with Major in Finance
- BEng(CompSc) with 2nd Major in Information Systems

The samples serve as illustrative purpose. Beware of the pre-requisite and time-tabling issues. Students who opt for a 2nd Major or Minor are responsible for planning for their own course of studies.
Final Year Projects

- Research and development projects
- Industrial / community based projects

[2012-13] HKU CS students design system to improve the rehabilitation services for the elderly.
Internship
Career – 2015 Graduate Statistics

Where did our 2015 graduates go?

Basic Salary of HKUCS Graduates
## Career – Graduate Statistics

<table>
<thead>
<tr>
<th>Positions</th>
<th>IT-related positions</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>2014</td>
<td>87%</td>
<td>13%</td>
</tr>
<tr>
<td>Examples</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Application/System/Technical/Technology Analyst</td>
<td>Account Executive</td>
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<tr>
<td></td>
<td>IT Officer/Specialist/Technician</td>
<td>Graduate Trainee Officer</td>
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<tr>
<td></td>
<td>Programmer/Developer/Software Engineer</td>
<td>Program Coordinator</td>
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<tr>
<td></td>
<td>IT Engineer/Assistant System Engineer</td>
<td>Programme Design and Editor</td>
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<tr>
<td></td>
<td>Android/Game/Mobile App Developer</td>
<td>Exempt Non-Officer</td>
</tr>
<tr>
<td></td>
<td>Research Assistant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Web Developer</td>
<td></td>
</tr>
</tbody>
</table>
## Career – Graduate Statistics

<table>
<thead>
<tr>
<th></th>
<th>IT/Tech/Engg</th>
<th>Finance/Banking</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>46%</td>
<td>42%</td>
<td>12%</td>
</tr>
<tr>
<td>2014</td>
<td>41%</td>
<td>31%</td>
<td>28%</td>
</tr>
</tbody>
</table>

**Examples**

- Accenture
- BPI Asia Ltd.
- HACTL
- Honda R&D Co., Ltd.
- Hutchison Telecom
- IBM
- China/HK
- Microsoft HK
- Oracle Systems HK
- Outblaze Ltd.
- Sensetime HK
- VHSof Technologies
- Weltronic Component
- Bank of America
- Bank of Tokyo
- BNP Paribas
- Credit Suisse
- Deutsche Bank AG
- HSBC
- JPMorgan Chase & Co.
- KPMG
- Société Générale
- UBS AG
- Cathay Pacific
- Chow Sang Sang Jewellery
- Family Learning Association
- OGCIO
- Roundtable Community
- Shopping Plus Ltd.
- SCMP
Career Paths

• Major Career Paths
  – Software Industry
    • Software Development
    • Software Quality Assurance
    • Project Management
    • Multimedia Content
  – Planning & managing organization technology infrastructure
    • IT Architecture
    • Service Management and Operation
    • Information Security
  – Further Study – Research
Further information

• Academic Advisor of Computer Science department: Dr. Anthony Tam (atctam@cs.hku.hk).

• Computer Science program: http://www.cs.hku.hk/programme/

• To download this briefing note and study plans: http://www.cs.hku.hk/programme/beng-cs/advising/advising.jsp

• Or access this web page via the QR code