2014 INDUCTION PROGRAMME
BEng(CompSc)

Dr. Anthony Tam
Academic Advisor
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 make productive use of computing technologies.*

**Theory & Knowledge (Computing) + Applications = Computer Science Studies**
BACHELOR OF ENGINEERING
COMPUTER SCIENCE
PROGRAMME STRUCTURE

UG5 Requirements
- Chinese Course
- English Courses
- CC Courses

54 credits

CS Professional Core
- 144 credits

General Engg. Courses
- 42 credits

CS Core Courses

CS Elective Courses
- Final Year Project
- Internship


Free Electives
- \( \geq 42 \) credits

Minor
- \( \geq 36 \) credits

BEng/BBA
- 54 credits

2nd Major
- \( \geq 72 \) credits
PROGRAMME HIGHLIGHTS

Flexibility
+ Students can select electives from a wide variety of courses
+ Use credits from Electives to satisfy some courses under the
  × Minor programme or
  × Two Minor programmes or
  × BEng/BBA Double Degree programme or
  × 2nd Major programme

Academic Advising
+ Academic advisors provide guidance and advice to students in
  × Programme selection and course enrolment
  × Developing study plans to achieve their personal goals
  × Career development and planning
  × Available academic / educational opportunities
PROGRAMME HIGHLIGHTS (2)

- Accreditation
  + The programme is accredited by the Hong Kong Institution of Engineers (HKIE)

- Go on Exchange
  + Students may participate in an international exchange during their course of study

- Internship
  + Students may spend 8-12 weeks (during summer) to 1 year of paid work experience and professional development in the industry

- Final year project
  + Students may choose amongst research-based projects, software development projects, and industry-based projects as their Capstone Experience

- Research opportunity
  + Outstanding students are having the opportunities to undertake research under the University Research Fellowship Programme (URFP).
The University offers a wide range of minors and majors to students of ALL Faculties

- Faculty of Arts
- Faculty of Business and Economics
- Faculty of Education
- Faculty of Engineering
- Faculty of Science
- Faculty of Social Science
EXAMPLES

✗ Faculty of Science
   
   prerequisites: programme’s specific requirements

✗ Faculty of Engineering
   + Minors: EEE, EnvE, GeoTech Eng, IETM, LESC, ME, ME(BSE)

✗ Faculty of Business and Economics
   + Majors/Minors: Economics, Information Systems, Finance
URL of the Advising Page


- 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 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.
**ACADEMIC ADVISING**

**Topics:**
- More details on
  - BEng(CompSc) Curriculum
  - Minor/2nd Major options
- Giving advices on course selection, study plan and career development

**Date:** September 16, 2014 (Tue)  
**Time:** 16:30 – 17:30  
**Venue:** Rm 308, Chow Yei Ching Bldg.
Welcome Mixer

Date: September 11, 2014 (Thu)  
(Tentative)
Time: 1:30 pm
Venue: TBA

A free buffet-like lunch gathering  
Provide a great opportunity for students, 
teachers and staff to gather in a relaxing 
environment
FURTHER ENQUIRIES

- BEng(CompSc) programme
  - Academic Advisor – Dr. Anthony Tam
    × Phone: 2859 7073    Email: atctam @ cs.hku.hk
    × Office: Rm305, Chow Yei Ching Building
  - Programme Director – Dr. Kenneth Wong
    × Phone: 2857 8443    Email: kykwong @ cs.hku.hk
    × Office: Rm323, Chow Yei Ching Building

- Student Affairs
  - Computer Science Association
    × http://i.cs.hku.hk/~csa/
You can access the Academic Advising Page and download

- this briefing note
- other study plans

http://www.cs.hku.hk/programme/beng-cs/advising/advising.jsp
THANK YOU
# Recommended 1st Year Course Enrollment

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH1011</strong> or <strong>MATH1851</strong> or <strong>MATH1853</strong></td>
<td><strong>MATH1851</strong> or <strong>MATH1853</strong></td>
</tr>
<tr>
<td>University mathematics I</td>
<td>Calculus and ordinary differential equations</td>
</tr>
<tr>
<td>Or</td>
<td>Or</td>
</tr>
<tr>
<td>Calculus and ordinary differential equations</td>
<td>Linear algebra, probability and statistics</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Linear algebra, probability and statistics</td>
<td></td>
</tr>
<tr>
<td><strong>ENGG1111</strong> Subclass A or B or C</td>
<td><strong>PHYS1050</strong></td>
</tr>
<tr>
<td>Computer programming and applications</td>
<td>Physics for engineering students</td>
</tr>
<tr>
<td><strong>ENGG1202</strong> or <strong>ENGG120X</strong></td>
<td><strong>ENGG1202</strong> or <strong>ENGG120X</strong></td>
</tr>
<tr>
<td>Introduction to computer science</td>
<td>Introduction to computer science</td>
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<tr>
<td>Or</td>
<td>Or</td>
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<tr>
<td>Another General Engineering course</td>
<td>Another General Engineering course</td>
</tr>
<tr>
<td><strong>CAES1000</strong></td>
<td><strong>Common Core course</strong></td>
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<tr>
<td>Core University English</td>
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<tr>
<td><strong>Common Core course</strong></td>
<td><strong>Common Core course</strong></td>
</tr>
</tbody>
</table>

Students without DSE Extended Module 1 or 2 should take MATH1011 before taking MATH1851 and MATH1853

\[ \text{ENGG1111 (1^{st} \text{ sem or 2^{nd} \text{ sem}) = ENGG1112 (1^{st} + 2^{nd} \text{ sem})} \]
NOTE

If you are intended to

join the Double Degree, you should follow Faculty’s guideline and deadline on the application

take a Minor or double Minors or even a 2nd Major, you should consult Dr. Anthony Tam
Basic Salary of HKUCS Graduates

Where did our 2013 graduates go?

- Community, Social & Personal Services: 7% (No Response)
- Further Studies: 4% (Further Studies)
- Civil Service: 4% (Civil Service)
- Educational Institutions: 5% (Educational Institutions)
- Commerce & Industry: 68% (Commerce & Industry)
# Career Prospects

## Positions

<table>
<thead>
<tr>
<th></th>
<th>IT-related positions</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>90%</td>
<td>10%</td>
</tr>
<tr>
<td>2012</td>
<td>89%</td>
<td>11%</td>
</tr>
<tr>
<td>2013</td>
<td>Application/System/Technical Analyst</td>
<td>Artist</td>
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<tr>
<td></td>
<td>Engineer/Assistant Engineer/Network</td>
<td>Executive Assistant</td>
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<tr>
<td></td>
<td>Engineer</td>
<td>Financial Consultant</td>
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<tr>
<td></td>
<td>Consulting Trainee/ICT Associate</td>
<td>Graduate Trainee</td>
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<td></td>
<td>IT Officer/Specialist/Support Officer</td>
<td>Management Associate</td>
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<tr>
<td></td>
<td>Programmer/Developer/Software Engineer</td>
<td>Management Trainee</td>
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<tr>
<td></td>
<td>Android/Game/Mobile App Developer</td>
<td>Product Marketing Executive</td>
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<td></td>
<td>Project Officer</td>
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<td></td>
<td>Research Assistant</td>
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<td></td>
<td>Technical Consultant/Director</td>
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<tr>
<td></td>
<td>Web Administrator/Developer/Programmer</td>
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</table>
Computer Science is very employable, not just for IT jobs but other analytical roles too because of the problem solving skills and analytical abilities we developed in the study. These skills also prove valuable to many areas of endeavor.

### Companies

<table>
<thead>
<tr>
<th></th>
<th>IT/Tech/Engg</th>
<th>Finance/Banking</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>55%</td>
<td>16%</td>
<td>29%</td>
</tr>
<tr>
<td>2012</td>
<td>56%</td>
<td>22%</td>
<td>22%</td>
</tr>
<tr>
<td><strong>Examples</strong></td>
<td><strong>Azeus System</strong></td>
<td><strong>Deloitte Touche Tohmatsu</strong></td>
<td><strong>Cathay Pacific</strong></td>
</tr>
<tr>
<td></td>
<td>Cisco Systems, Inc</td>
<td>Hang Seng Bank Ltd.</td>
<td>Catering Service</td>
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<td></td>
<td>ESRI China (HK)</td>
<td>HSBC</td>
<td>Deacons</td>
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<td></td>
<td>HAECO</td>
<td>ICBC</td>
<td>Dow Jones</td>
</tr>
<tr>
<td></td>
<td>IBM</td>
<td>JPMorgan Chase &amp; Co.</td>
<td>Publishing</td>
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<td></td>
<td>NCS Group</td>
<td>Octopus Cards</td>
<td>HK Police, HKSAR</td>
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<tr>
<td></td>
<td>Openrice</td>
<td>PricewaterhouseCoopers</td>
<td>HKU</td>
</tr>
<tr>
<td></td>
<td>OOCL</td>
<td>Sumitomo Mitsui Banking</td>
<td>SCMP</td>
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<tr>
<td></td>
<td>PCCW Solutions</td>
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</tbody>
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