Let’s take a look at our department

https://www.youtube.com/watch?v=yREmhIIWI80
A Long History

• The first computer science department in HK
• Offering **AIST, CDAS, CENG** and **CSCI** programmes
• A strong alumni network
Excellence in Teaching and Research

2021 Kyoto Prize Laureate and Turing Award Recipient
Prof. Andrew Yao

Seven ACM Fellows
Prof. Andrew Yao, Prof. Martin Wong, Prof. Michael Lyu, Prof. Benjamin W. Wah, Prof. John Lui, Prof. Yufei Tao, etc.

Ten IEEE Fellowship
Prof. Irwin King, Prof. John Lui, Prof. Jiaya Jia, etc.

CUHK University Education Award 2020
Prof. Irwin King, for the KEEP team (Knowledge & Education Exchange Platform)

Vice-Chancellor's Exemplary Teaching Award 2019
Senior Lecturer Michael Fung
Recent Achievements in Intl’/local Competitions

3 Awards in International Conference on Computer-Aided Design (ICCAD)

- 1st place for topic “GPU-Accelerated Logic Rewriting” and 2nd place for “Routing with Cell Movement Advanced” in 2021 CAD Contest

- 2nd place in 2021 CADathlon

International Collegiate Programming Contest (ICPC) (formerly named ACM Programming Competition)

- 2019: ranked 12th (over 3000 universities)
  - 2012: ranked 8th
  - 2011: ranked 13th
  - 2001: ranked 8th

PwC’s HackaDay 2019

- 2nd place
**2022 QS World University Ranking**

- **#26 Worldwide in Computer Science and Information Systems**
- **#5 in Asia**
- **#1 in Hong Kong**


<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>Overall Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>The Chinese University of Hong Kong...</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>🇭🇰 Hong Kong SAR, Hong Kong SAR</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>The Hong Kong University of Science...</td>
<td>77.3</td>
</tr>
<tr>
<td></td>
<td>🇭🇰 Hong Kong SAR, Hong Kong SAR</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>The University of Hong Kong</td>
<td>75.2</td>
</tr>
<tr>
<td></td>
<td>🇭🇰 Hong Kong SAR</td>
<td></td>
</tr>
</tbody>
</table>
CSRanking in 2022

- #33 worldwide in Computer Science
- #9 in Asia
- Top in Hong Kong

(http://csrankings.org/#/fromyear/2021/toyear/2022/index?all&world)
AIST programme JUPAS intake ranking among all CUHK programmes

<table>
<thead>
<tr>
<th>Percentile</th>
<th>CHI</th>
<th>ENG</th>
<th>MATHS</th>
<th>LS</th>
<th>M1/M2</th>
<th>1st Elective</th>
<th>2nd Elective</th>
<th>3rd Elective</th>
<th>Reference Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Quartile</td>
<td>4</td>
<td>5**</td>
<td>5**</td>
<td>4</td>
<td>5*</td>
<td>5*</td>
<td>5*</td>
<td>5*</td>
<td>32</td>
</tr>
<tr>
<td>Median</td>
<td>3</td>
<td>5</td>
<td>5**</td>
<td>3</td>
<td>5**</td>
<td>5*</td>
<td>5</td>
<td>5</td>
<td>30</td>
</tr>
<tr>
<td>Lower Quartile</td>
<td>3</td>
<td>5</td>
<td>5**</td>
<td>4</td>
<td>5</td>
<td>5*</td>
<td>5*</td>
<td>5</td>
<td>29</td>
</tr>
</tbody>
</table>

^ The Total Reference Score is the total score of the applicant calculated based on the best 5 subjects in Category A or Category C of HKDSE:
where lv 5** = 7, lv 5* = 6, lv 5 = 5, lv 4 = 4, lv 3 = 3, lv 2 = 2, lv 1 = 1 for Category A subjects;
and Grade A = 5, Grade B = 4, Grade C = 3, Grade D = 2, Grade E = 1 for Category C subjects.

Admission is not based on public examination results alone, and the overall scores of students admitted vary from year to year. The information provided is for reference only and should not be used to predict the chance of admission in subsequent years.

Student Training

CUHK Amazon Deep Learning Workshop 2019

Cooperated with Amazon to offer student training in deep neural networks and machine learning

City Challenge – Bridge to a Smarter City 2016

Designed technology-based living applications for the elderly and won the second runner-up
Industrial Visits

• Visit to companies to learn latest development in industry
Work-Study Scheme

• One-year placement and internship for students to gain practical experience in a real working environment

Example of Previous Opportunities in CSE

Google
Microsoft
HP
HSBC
恒生銀行 HANG SENG BANK
Sun Hung Kai Properties
ASM Pacific Technology
HKSTP
FUJITSU

More details will be announced when places are available!
Strong Alumni Network

IT Industry
- Microsoft
- Google
- Apple
- IBM
- NOKIA
- amazon.com
- facebook

Education
- National University of Singapore
- CityU
- NUS
- Carnegie Mellon University
- Georgia Tech

Banking
- HSBC
- citibank
- Morgan Stanley
- Deutsche Bank
- Goldman Sachs
Graduate Employment Statistics in 2021

**Employment Status (CE)**
- Full-time Employment: 70%
- Temporary / Part-time Employment: 8%
- Further Studies: 11%
- Seeking Employment: 11%
- Others: 0%

**Employment Status (CS)**
- Full-time Employment: 66%
- Further Studies: 19%
- Seeking Employment: 8%
- Others: 6%

**Monthly Salary of CE & CS Graduates**

<table>
<thead>
<tr>
<th>Programme</th>
<th>Median (HK$)</th>
<th>Mean (HK$)</th>
<th>Minimum (HK$)</th>
<th>Maximum (HK$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Engineering</td>
<td>18,000</td>
<td>21,031</td>
<td>10,000</td>
<td>65,833</td>
</tr>
<tr>
<td>Computer Science</td>
<td>19,500</td>
<td>21,300</td>
<td>14,000</td>
<td>44,000</td>
</tr>
</tbody>
</table>
Graduate Employment Statistics in 2021

Sectors of Employing Organisations of Graduates

- Government
- Education: Others
- Tertiary Institution
- Secondary School
- Transportation / Logistics
- Trading / Import & Export
- Retailing / Wholesaling
- Real Estate
- Mechanical / Industrial Engineering
- IT / Telecommunications
- Insurance
- Creative Media
- Computer Engineering / Software (Engineering)
- Banking / Finance
- Architecture / Surveying / Construction
- Accounting

Colors: Orange - Computer Science, Blue - Computer Engineering
I'm now working in Deloitte’s Cyber Risk Advisory Team. Cybersecurity is a promising job, you can equip yourself to be a cybersecurity expert by enrolling relevant courses provided by the Department of Computer Science and Engineering. Cybersecurity professionals, like information security analysts, protect businesses, governments, and individuals from criminal activities on the internet. With the explosive growth of the internet in business, education, and personal communication, computer experts with knowledge of cybersecurity are in high demand.

Ka Ki CHAU, CSCI Graduate of 2021
The courses offered by the CSE department give a solid foundation on both the practical and theoretical sides of CSCI programme. I'm now working in Google's Android Pixel team, topics from CSCI courses still often pop up during my day-to-day job. As the software industry becomes increasingly competitive, I feel quite lucky that I’ve undergone such rigorous academic training.

Yu CHAO,  
CSCI Graduate of 2020
Sharing from Our CSE Students

Hei Yiu LAW,  
CENG Graduate of 2021

During the 4 years of my study as a CENG student, I could take courses on different topics. These courses not only consolidate my knowledge related to my major but can also train up my critical thinking and logical thinking skills. We have to design and implement a smart hardware product in just a few weeks and this project not only gives me a hands-on experience on designing smart hardware product, but also improves my communication skill and time management skill.
The special thing about AIST programme is the learning experience which has been eye-opening. I can get to build a solid foundation on not only the problem-solving mindset, but also fundamental knowledge such as calculus and statistics. Although some may find them difficult, they are valuable tools that will help distinguish me from the non-engineering counterparts.
Growing Demand and Opportunities

• Skills in **computer software**, **industrial automation**, machine learning, network and security, **robotics**, etc. are of keen demand in many emerging jobs (LinkedIn 2020 Emerging Jobs Report)

  Engineering isn’t a new profession by any means, but engineering roles across the board are still seeing tremendous growth. More than 50% of this year’s list was made up of roles related to engineering or development, with the emerging field of robotics appearing for the first time.

• **150M technology-related jobs expected to be added globally over the next five years** (LinkedIn Jobs on the Rise in 2021)

Reference:
Growing Demand and Opportunities

- Hong Kong’s start-up ecosystem is **thriving**. In 2020, the number of start-ups in Hong Kong **grew by 6%** to **3,360**, **employing over 10,000 people**.
  » Hong Kong is a **strategic business platform & marketplace in Asia**

- The Global Innovation Index that evaluated 129 economies on 80 parameters ranked Hong Kong at **13th (Year 2019)** to **11th (Year 2020)**
  » The demand for the job in tech sectors has been **growing rapidly** over the years.

### Industry Data

<table>
<thead>
<tr>
<th>Global Rankings</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Innovation Index</td>
<td>16/127</td>
<td>14/126</td>
<td>13/129</td>
<td>11/131</td>
</tr>
<tr>
<td>IMD Digital Competitiveness</td>
<td>7/63</td>
<td>11/63</td>
<td>8/63</td>
<td>5/63</td>
</tr>
</tbody>
</table>

Source: Global Innovation Index Reports; IMD World Competitiveness Centre

Reference:
https://research.hktdc.com/en/article/MzEzOTIwMDIy
What’s More?

• Chances to **create your own project and innovation** with support and advice from CSE teachers

• **Exchange opportunities** to world-class universities

• **High competitiveness** in job market with **90%** of CSE graduates employed within one month of graduation

• CSE teachers usually have the **highest teaching evaluation scores**
Why CSE Department?

Because it is fun!
Admission Arrangement and Requirements (First Year Entry)
Admission Arrangement (First Year Entry)

• Students will be admitted into Computer Science and Engineering (JS4412)

• They will then be allocated into one of the majors in the Major Allocation exercise after Year 1
  » Computer Engineering (CENG)
  » Computer Science (CSCI)

Major Allocation:
https://www.cse.cuhk.edu.hk/admission/cengn/major-allocation-cengn/
https://www.cse.cuhk.edu.hk/admission/cscin/major-allocation-cscin/
## Admission Requirements (For JUPAS Applicants)

<table>
<thead>
<tr>
<th>HKDSE Subject</th>
<th>Minimum Level</th>
<th>Subject Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HKDSE Core Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Chinese Language</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics (Compulsory Part)</td>
<td>4</td>
<td>1.5</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>2</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>HKDSE Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One specific science subject ^</td>
<td>3</td>
<td>1.5 – 1.75</td>
</tr>
<tr>
<td>Any one other subject #</td>
<td>3</td>
<td>1 – 1.75</td>
</tr>
</tbody>
</table>

^ Specific science subjects and subject weighting include 1.75 for Maths M1/M2, 1.5 for Biology, Chemistry, Physics and Combined Science.

# Preferred subjects include 1.75 for Maths M1/M2, 1.5 for Biology, Chemistry, Physics, Combined Science, Design and Applied Technology and Information and Communication Technology, and 1 for other subjects. Please refer to [https://www.cse.cuhk.edu.hk/](https://www.cse.cuhk.edu.hk/) for details of subject weighting.

Selection is based on the Best 5 HKDSE subjects with subject weighting applied. Bonus points will be awarded to the 6th and 7th subjects, if any.
Admission Requirements
(for Non-JUPAS & International Applicants)

• Applicants seeking admission on the strength of qualifications other than HKDSE examination results (e.g., IB, GCE-AL, overseas qualifications) can apply through Non-JUPAS channels

• Will be considered on the basis of their education background and academic achievements

• Can apply for “Admission with Advanced Standing” (for particular qualifications only)

Check more details at OAFA’s website!

Non-JUPAS Applications: http://admission.cuhk.edu.hk/non-jupas-yr-1/requirements.html
International Applications: http://admission.cuhk.edu.hk/international/requirements.html
Admission Arrangement and Requirements (Senior Year Entry)
Admission Arrangement (Senior Year Entry)

- Applicable for local applicants with Associate Degree or Higher Diploma qualifications only

- To meet the entrance requirements, you need to have,
  - successfully completed a local course of study leading to the qualification of associate degree / higher diploma, preferably with overall CGPA $\geq 3.0$ or equivalent, AND
  - Met the minimum required scores or grades in English and Chinese languages
Admission Arrangement (Senior Year Entry)

• To make your application competitive, you need to demonstrate capabilities in mathematics, programming and communication skills.

• If you are unsuccessful for the Senior Year Entry, you will be considered for the Computer Science and Engineering (BCSEN) First Year Entry with Advanced Standing.

Check more details at OAFA’s website!

Senior Year Applications:
http://admission.cuhk.edu.hk/non-jupas-senior/requirements.html
Curriculum Structure
CENG & CSCI
Curriculum – Overview

- **Faculty Foundation**: (Maths + Science)
- **Major Core**: 
  - Major Electives
  - University Common Core (Languages, GE, PE) (39 Units)
  - Free Electives (9 Units)
- **Final Year Project**
- **Major Electives**
- **Free Electives** (9 Units)

Total Units: 123
Curriculum – Major Requirements

1. Faculty Foundation (Maths + Science)
2. Major Foundation
3. Major Core
4. Final Year Project

Major Core
Major Electives
Major Electives

Faculty Foundation
Faculty Foundation (Maths + Science)

75 units
Curriculum – Faculty Package and Foundation

Faculty Package and Foundation (15 units)

- Problem Solving By Programming (ENGG1110)
- Linear Algebra for Engineers (ENGG1120)
- Multivariable Calculus for Engineers (ENGG1130)
- Calculus for Engineers (MATH1510)
- Foundation Science
Curriculum – Major Foundation (for CENG)

Major Electives

Major Foundation

Major Core

Major Electives

Final Year Project

Major Electives

Major Core

Major Electives

Faculty Package

Major Electives

Major Core

Faculty Foundation (Maths + Science)

Major Foundation (11 units)

» Introduction to Computing Using C++ (CSCI1120)
» Complex Variables for Engineers (ENGG2720)
» Differential Equations for Engineers (ENGG2740)
» Probability for Engineers (ENGG2760)
» Statistics for Engineers (ENGG2780)
Curriculum – Major Core *(for CENG)*

### Major Core (31 units)

- Digital Logic Design Laboratory (CENG2010)
- Fundamentals of Embedded Systems (CENG2030)
- Embedded System Design (CENG2400)
- Computer Organization and Design (CENG3420)
Curriculum – Major Core *(for CENG)*

1. Faculty Package
2. Major Foundation
3. Major Core
4. Final Year Project

**Major Core (31 units)**

- Data Structures (CSCI2100)
- Software Engineering (CSCI3100)
- Introduction to Operating Systems (CSCI3150)
- Introduction to Discrete Mathematics and Algorithms (CSCI3190)
- Computers and Society (CSCI3250)
- Engineering Practicum (CSCI3251)
Curriculum – Major Core (for CENG)

Major Core (31 units)

- Fundamental of Electric Circuits (ELEG2202)
- Digital Logic and Systems (ENGG2020)

1. Faculty Package
2. Major Foundation
3. Major Core
4. Final Year Project

Major Electives

- Fundamental of Electric Circuits (ELEG2202)
- Digital Logic and Systems (ENGG2020)

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Major Electives (12 units)

Streams
1. Embedded Systems
2. VLSI Design and EDA

Non-Stream
3. General Computer Engineering
Curriculum – Major Foundation (for CSCI)

Major Electives

Final Year Project
Major Electives

Major Core
Major Electives

Major Foundation
Major Core

Faculty Package
Faculty Foundation (Maths + Science)

Major Foundation (10 units)

» Introduction to Computing Using Java (CSCI1130)
» Discrete Mathematics for Engineers (ENGG2440)
» Probability for Engineers (ENGG2760)
» Statistics for Engineers (ENGG2780)
Curriculum – Major Core (for CSCI)

**Major Core (27 units)**

- Computer Organization and Design (CENG3420)
- Data Structures (CSCI2100)

**Major Core (27 units)**

- Computer Organization and Design (CENG3420)
- Data Structures (CSCI2100)
Curriculum – Major Core (for CSCI)

**Major Core (27 units)**

- Software Engineering (CSCI3100)
- Formal Languages and Automata Theory (CSCI3130)
- Introduction to Operating Systems (CSCI3150)
- Design and Analysis of Algorithms (CSCI3160)
- Principles of Programming Languages (CSCI3180)
**Curriculum – Major Core (for CSCI)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Faculty Package, Faculty Foundation (Maths + Science)</td>
</tr>
<tr>
<td>2</td>
<td>Major Foundation, Major Core</td>
</tr>
<tr>
<td>3</td>
<td>Major Core, Major Electives</td>
</tr>
<tr>
<td>4</td>
<td>Final Year Project, Major Electives</td>
</tr>
</tbody>
</table>

**Major Core (27 units)**

- Computers and Society (CSCI3250)
- Engineering Practicum (CSCI3251)
- Digital Logic and Systems (ENGG2020)
Curriculum – Major Electives *(for CSCI)*

**Major Electives** *(17 units)*

**Streams**
1. Intelligence Science
2. Database and Information Systems
3. Rich Media
4. Distributed Systems, Networks and Security
5. Algorithms and Complexity
6. Data Analytics

**Non-Stream**
7. General Computer Science
Curriculum – Distinct Topics

• Computer-aided Design for Very Large Scale Integrated Circuits (CENG4120/CENG5030/CENG5270)
Curriculum – Distinct Topics

• Embedded System Development and Applications (CENG4480)
Curriculum – Distinct Topics

• Artificial Intelligence (CSCI3230/ESTR3108)
  » Create computer software that are capable of intelligent behavior
    ✓ Searching
    ✓ Pattern recognition
    ✓ Genetics algorithms
    ✓ Artificial neural networks
    ✓ Deep learning

At last — a computer program that can beat a champion Go player

no copyright infringement is intended
Curriculum – Distinct Topics

• Computer Graphics and Multi-media (CSCI3260/CSCI3280/CSCI3290)
  » Use graphics cards to create photorealistic images and movies

Rendering pipeline

(x, y, z, 1)

screen

Ray tracing

Is it real?
Curriculum – Distinct Topics

• Computer Graphics and Multi-media (CSCI3260/CSCI3280/CSCI3290)

Film & visual effects & data visualization

no copyright infringement is intended
Curriculum – Distinct Topics

• Computer Graphics and Multi-media (CSCI3260/CSCI3280/CSCI3290)
Curriculum – Distinct Topics

- Computer Game Software (CSCI4120)

Learn how to develop a game
Curriculum – Distinct Topics

• Computer Game Software (CSCI4120)

Students’ course projects

no copyright infringement is intended
Curriculum – Distinct Topics

• Algorithms for Bioinformatics (CSCI3220)
  » Use computer to model and interpret biological data
  » DNA mutation ↔ diseases
Curriculum – Distinct Topics

- Big Data Analytics and Machine Learning (CSCI3170/CSCI3320/CSCI4180/CSCI5510)

\[
\begin{align*}
\text{ATCGAATTCCATAATC} \\
\text{ATTATCGAACTTACGA} \\
\text{AATTTACAATCAATCG}
\end{align*}
\]

Data

\[
\begin{align*}
\text{ATCGAATTCCATAATC} \\
\text{ATTATCGAACTTACGA} \\
\text{AATTTACAATCAATCG}
\end{align*}
\]

Patterns

Fast and Efficient

Knowledge

Information
Curriculum – Distinct Topics

• Many other practical and interesting courses:
  » Algorithms
  » Cloud Computing
  » Computational Finance
  » Computer and Network Security
  » Databases
  » Energy Efficient Computing
  » Networks
  » Operating Systems
  » Rapid Prototyping of Digital Systems
  » Smart Hardware Design
  » ……
Curriculum – Final Year Project (FYP)

Final Year Project (6 units)

- Pick an interesting topic
- Interdisciplinary nature
- Apply the knowledge learnt in the previous courses
- Many open topics. Your creativity and discussion with the supervisor
- Complete a project under the supervision of an advisor

Open topic FYP – you may also propose a project to a professor
FYP (AI + Bioinformatics)

- Apply machine learning to predict RNA-protein interaction

RNA folds to a specific structure to fit into the protein binding site

RNA-binding protein (RBP)

From FYP KY1804
FYP (AI + Multimedia)

- Design a neural network that learns to produce a tiling
FYP (AI + Computer Vision)

• Chinese Medicinal Herb Recognizer
FYP (Self-driving Robots)

- Controls: Serial, Bluetooth, and Raspberry Pi, etc.

From FYP MCY1801
FAQ Contents:
Q: Will there be any interview?
Q: What is Major Allocation?
Q: Computer Engineering (CE) or Computer Science (CS)?
Q: How many students will be admitted to BCSEN in 2022-23?
Q: Will there be any exchange opportunity?
Q: Will there be any scholarship or financial aid?
Q: What are the career prospects of CENG/CSCI graduates?
Q: What is ELITE Stream? How can I join it?
Q: How can I declare a stream?
Q: Can I transfer to AIST or other majors in Year 2?
Q: Can I declare AIST / CSCI / CENG as second major or minor?
Q: I am still struggling to choose AIST / CSCI / CENG. What can I do?
Q: Will there be any interview?
Interview Arrangement (JUPAS)

• We plan to arrange interviews in **mid-/late June, 2022**.

• We only consider **Band A applications** for shortlisting.

• Shortlisted applicants will receive an invitation email for the details, *e.g.*, **date, time, format, etc.**

• Stay tuned! **Check your email** regularly for the latest update!
Interview Arrangement (Non-JUPAS)

• Interviews will be conducted in batches from ~Jan. every year.

• You are encouraged to attach adequate supporting documents, e.g., transcripts, predicted grade, certificates, etc., in your application for our holistic review.

• Shortlisted applicants will receive an invitation email for the details, e.g., date, time, format, etc.

• Stay tuned! Check your email regularly for the latest update!
Q: What is Major Allocation?
Students will be allocated into one of the major programmes in Major Allocation after Year 1

» Computer Engineering (CENG)
» Computer Science (CSCI)

Students with outstanding entry grades / scholarships and good academic performance in their first year of study are guaranteed their first choice of major.

It is expected that a relatively high percentage of students would be allocated to their preferred major.
Q: Computer Engineering (CE) or Computer Science (CS)?
Difference between CENG and CSCI

• **Computer Engineering** is more about **building things**
  » To take care of design and hardware/software integration (e.g., lower cost, higher speed, more energy efficient)

• **Computer Science** is more about **designing software solutions**
  » To take care of coding, software architecture, and the underlying theory
Q: How many students will admit to BCSEN in 2022-23?
Intake Quota

- BCSEN (JS4412): Computer Science and Engineering
  Intake Quota: 103

For more details:
https://dse.bigexam.hk/zh-hk/pathway/progs/jupasProg/JS4412
Q: Will there be any exchange opportunity?
Exchange to Overseas Universities

• You are encouraged to join the exchange programme to **broaden your horizon and learn with peers from diverse background**

• List of some overseas universities for the exchange
  » Macquarie University, Australia
  » University of Toronto, Canada
  » Shanghai Jiao Tong University, China
  » Telecom & Management SudParis, France
  » Royal Institute of Technology (KTH), Sweden
  » University of California, Davis, USA
  ...

Submit your application via **Office of Academic Links (OAL)**!
Q: Will there be any scholarship or financial aid?
Scholarships and Financial Aids

• The Government and the University offer various scholarships and financial aids depending on student’s financial situation, or their outstanding performance in academic or other areas

• List of some scholarships and financial aids
  » Admission Scholarships
  » Scholarships for Overseas Studies
  » Government or University Financial Aid
  » Summer Subsistence and Travel Loan Scheme
  » Student Residence Bursary Scheme
  ...

Check out more details at the Office of Admissions and Financial Aid (OAFA)!
Q: What are the career prospects of CENG/CSCI graduates?
Career Prospects

• Employers of our graduates include:
  » Google
  » Intel
  » Microsoft
  » IBM
  » Apple
  » Facebook
  » Yahoo
  » Deloitte
  » Hong Kong Government
  » Investment Banking Institutes
  ...
Career Choices

- Entrepreneur
- Systems programmer
- Mobile app developer
- Database administrator
- Management/IT consultant
- Researcher
- Bioinformatics specialist
- System consultant
- Data analyst
- Web and content developer
- Network administrator
- Game designer/programmer
- Medical imaging specialist
- Software engineer
- System analyst
- Systems administrator
- Network engineer
- Data miner
- Systems integrator
- Business analyst
Q: What is ELITE Stream? How can I join it?
Engineering Leadership, Innovation, Technology and Entrepreneurship Stream (ELITE Stream)

• Offered by the Faculty of Engineering to students with excellent academic performance.

• Challenge yourself with additional coursework, invaluable extra-curricular activities, exclusive stimulating and inspiring courses, special exchange opportunities, etc.!

Check out more details at the Faculty of Engineering!
Q: How can I declare a stream?
Stream Declaration

- You should check and **complete the required courses** of the respective stream.
- You will be invited for the stream declaration in the **final year** of study.
- You can declare in **at most one stream**

**CENG Streams**
1. Embedded Systems
2. VLSI Design and EDA

**CSCI Streams**
1. Intelligence Science
2. Database and Information Systems
3. Rich Media
4. Distributed Systems, Networks and Security
5. Algorithms and Complexity
6. Data Analytics
Q: Can I transfer to AIST or other majors in Year 2?
If you look for AIST / other majors instead...

• You may submit application for **change of major** (to AIST or other majors), subject to prevailing regulations stipulated by RES and approval by relevant unit(s).

• If you are determined to go for AIST, you may choose **JS4468 / AISTN** as your first choice directly.
Q: Can I declare AIST / CSCI / CENG as second major or minor?
Declare Second Major / Minor

• You are **not allowed to declare AIST / CSCI / CENG as your second major or minor** if you are a CSE student.

• However, you are encouraged to broaden your horizons and declare second major / minor offered by other departments.
Q: I am still struggling to choose AIST / CSCI / CENG. What can I do?
If you are still struggling to choose...

• You can **go through our website and admission materials** for a better understanding before submission, and **write to us via email to** [ug-admiss@cse.cuhk.edu.hk](mailto:ug-admiss@cse.cuhk.edu.hk) whenever you have any queries.

• You can **join our outreach activities** in the future and chat with our teachers and student ambassadors.

• You can also **subscribe our social media channels** to receive the latest updates from us! Stay tuned!
See you in Fall 2022!