**Why is CPEG useful?**

Understanding how software runs on a computer or on a general-purpose processor is very important because you can optimize and improve the performance of your system. For today’s electronic devices, we are not only concerned about functionality but also performance and power constraints, an extremely important consideration for mobile devices and Internet of Things.

**What is the difference between Computer Science and Engineering, Electronic and Computer Engineering, and Computer Engineering?**

**Highlights**

**2-IN-1: BEST OF BOTH WORLDS**
Balanced training on both hardware and software skills, covering all architectural and engineering aspects of computer-based systems.

**FLEXIBLE CHOICES FOR FINAL YEAR PROJECT**
Final year students enjoy the freedom to select a CSE or ECE final year project according to their latest interests.

**BENEFIT FROM LAB RESOURCES AND FACILITIES OF 2 DEPARTMENTS**
- CPEG students can take full advantage of state-of-the-art facilities of both the CSE and ECE Departments.
- CPEG is a well-integrated 2-in-1 program!

**WIDE RANGE OF AREA CHOICES**
After learning the fundamentals of software, hardware and system, CPEG students can deepen their knowledge by taking elective courses in various technical areas of specialization.

**MORE JOB OPPORTUNITIES**
Job opportunities of CPEG graduates span both software and hardware as well as any area involving applications of information and communication technology. Examples include system analysts, network analysts, network designers, programmers, IC design engineers, hardware engineers, software engineers etc., in engineering business as well as management and banking sectors. Employers of our graduates include:
- Google, Facebook, ASTR, DHL, EPSON, Lenovo, IBM, HP, VTech, CLP
- PCCW, SmarTone, HKT, Hutchison Telecom, China Mobile HK
- Thomson Reuters, Cathay Pacific, HK Police Force, HK Disneyland, MTR
- Credit Suisse, Merrill Lynch, KPMG, Goldman Sachs, Morgan Stanley, UBS, Bank of China, HSBC, Citibank, JPMorgan etc.

**SYSTEM FUNDAMENTALS**
- Artificial Intelligence/ Theory
- Graphics/ Multimedia
- Signal Processing
- Software/ Database

**SOFTWARE FUNDAMENTALS**
- Communications
- Embedded Systems/ Robotics
- Semiconductors/ VLSI
- Systems/ Networking

**HARDWARE FUNDAMENTALS**
- Engineering Fundamentals

**UNIVERSITY COMMON CORE**

**COMP Software**
Department of Computer Science & Engineering (CSE)

**CPEG Software Hardware Cross-interaction**
Department of Electronic & Computer Engineering (ECE)

**ELEC Hardware**
CAREER Prospect

Employers of our previous graduates include: BOC, CTI, DHL, EPSON, HK Bank, Hutchison Telecom, Motorola, Goldman Sachs, PCCW, Cathay Pacific Airways, Merrill Lynch, etc.

Career in Computer Engineering

- Professor
- CTO/CEO
- R&D Engineer
- Senior Engineer
- Senior Manager
- CTO/CEO
- Start your own company
- Career available for BS or BBA students
- MS & PhD in EE or CS
- Engineer
- MBA
- Bachelor Degree in Computer Engineering

ADMISSION Requirements

Applicants must meet general entrance requirement and the School-specific requirement. After admission to the School of Engineering (JUPAS Catalogue No.: JS5200), students will take the compulsory University Core Curriculum program and learn the fundamental of the major programs of the School in the first 2 to 3 terms. Academic advice will be provided to help students explore their interest before choosing their majors.

General entrance requirement: (1) 4 cores + 2X OR (2) 4 cores with M1 / M2 + 1X

Subjects and level

- English Language
- Chinese Language
- Mathematics (Compulsory Module)
- Liberal Studies
- Elective 1
- Elective 2 OR M1 / M2

School:

- Engineering
- School-specific requirements

Note:
X: Elective subjects
M1: Mathematics Extended Module 1 (Calculus & Statistics)
M2: Mathematics Extended Module 2 (Algebra & Calculus)
Welcome to Computer Engineering CPEG!

CPEG is at the heart of the information age. It is a challenging program for the brave hearts and the high-achievers. With a unique research emphasis and well-equipped laboratories, our forward-looking curriculum teaches you the state-of-the-art technologies. Our objective is to provide students with a broad and well-integrated background of computer systems involving a balanced training spanning hardware, software and management. Industry-sponsored projects and internship programs give our students direct exposure to real-world issues, thus ensuring good job prospects for our graduates. We understand that young minds need the highest degree of flexibility as they explore their strengths and interests, and most importantly, we inspire, challenge and guide our students to aim high and excel through frequent faculty-student interaction. All of these explains why CPEG graduates have always found great jobs, and employers keep coming back to us. Find out by yourself. You will enjoy this challenge.

What is Computer Engineering

- CPEG focuses on the design, implementation and application of computer systems.
- CPEG is jointly run by the Department of Electronic and Computer Engineering (ECE), and the Department of Computer Science and Engineering (CSE).
- It bridges the gap between computer science and electronic engineering and is the link between software and hardware.

What is the difference between CPEG and Computer Science and Engineering (CSE), and Electronic and Computer Engineering (ECE)?

- CSE focuses mainly on software related topics.
- ECE focuses mainly on hardware related topics.
- CPEG aims at providing its students with a well-integrated and balanced software and hardware knowledge.
- Emphasis in CPEG is placed on deep understanding of both hardware and software and their cross-interaction in order to design cutting-edge and advanced electronic and computer systems.