香港城市大學
City University of Hong Kong

# COLLEGE OF ENGINEERING

## International Rankings

- Most International Universities in the World 2024 & 2025 & 2026 *(THE)*
- One of the two universities in Hong Kong which ranked top 100 in four major ranking systems *(U.S. News, QS, ShanghaiRanking, THE)*

About Ranking

### U.S. News and World Report Global University Rankings

**Worldwide 47th**

**Asia 9th**

**HK 3rd**

**By Subjects - Worldwide**

| | |
|---|---|
| Materials Science | 5th (1st in HK) |
| Physical Chemistry | 6th (1st in HK) |
| Condensed Matter Physics | 7th (1st in HK) |
| Energy & Fuels | 8th (1st in HK) |
| Nanoscience & Nanotechnology | 8th (1st in HK) |
| Optics | 9th (1st in HK) |
| Chemical Engineering | 22nd (1st in HK) |
| Electrical & Electronic Engineering | 27th (1st in HK) |
| Engineering | 17th (2nd in HK) |
| Green and Sustainable Science & Technology | 23rd (2nd in HK) |
| Mechanical Engineering | 25th (2nd in HK) |
| Computer Science | 23rd |
| Artificial Intelligence | 26th |
| Civil Engineering | 47th |

### Quacquarelli Symonds (QS) World University Rankings

**Worldwide 52nd**

**Asia 7th**

**HK** (Asia Ranking) **3rd**

**By Subjects - Worldwide**

| | |
|---|---|
| Materials Sciences | 39th (1st in HK) |
| Engineering - Electrical & Electronic | 71st |
| Engineering - Civil & Structural | 51st-100th |

### ShanghaiRanking's Global Ranking

**Worldwide 95th**

**HK 2nd**

**By Subjects - Worldwide**

| | |
|---|---|
| Library & Information Science | 3rd (1st in HK) |
| Automation & Control | 10th (1st in HK) |
| Metallurgical Engineering | 16th (1st in HK) |
| Nanoscience & Nanotechnology | 16th (1st in HK) |
| Materials Science & Engineering | 19th (1st in HK) |
| Electrical & Electronic Engineering | 22nd (1st in HK) |
| Chemical Engineering | 33rd (1st in HK) |
| Energy Science & Engineering | 14th (2nd in HK) |
| Artificial Intelligence | 21st (2nd in HK) |
| Telecommunication Engineering | 27th (2nd in HK) |
| Instruments Science & Technology | 36th (2nd in HK) |
| Biomedical Engineering | 40th (2nd in HK) |
| Transportation Science & Technology | 23rd |
| Computer Science & Engineering | 30th |
| Civil Engineering | 40th |
| Robotic Science & Engineering | 42nd |

### Times Higher Education (THE) World University Rankings

**Worldwide 73rd**

**Asia 14th**

**By Subjects - Worldwide**

| | |
|---|---|
| Engineering | 58th |
| Computer Science | 61st |
| Physical Sciences | 65th |

# Bachelor's Degree

Depending on the departments, students admitted to the 4-year bachelor's degree programmes will either be enrolled in a major in a department, or study the common first year in a department and then choose a major after completing the first year of study.

JUPAS Catalogue No./ Admission Code

## JS1217/ 1217

Flagship Programmes

## College of Engineering

### Pathway for Research, Innovation, and Multinational Engineering (PRIME)

*(any major in College of Engineering + Overseas Experience / Interdisciplinary / Entrepreneurial Training)*

PRIME is a flagship programme of the College, designed to provide exceptional students with a comprehensive education in engineering and opportunities to gain valuable experience through research internships and work placements at leading universities and companies worldwide. It equips students with the skills and knowledge needed to excel in the field of engineering profession, preparing them for successful careers in the global industry.

Key features of PRIME include a free choice of major within the College of Engineering, one-on-one mentorship throughout the study period, overseas experience in Year 3 or Year 4 (either research internship or a global work placement in an international company), an interdisciplinary final-year project, and guaranteed admission to CityUHK PhD programme, upon meeting the PhD programme entrance requirements.

PRIME welcomes talented and motivated students with a passion for engineering and a commitment to excellence. Local students admitted to the flagship programmes with outstanding examination results will automatically be considered for the Flagship Scholarships. For details, please visit www.cityu.edu.hk/scholarship.

(852) 3442 4133 ceng.adm@cityu.edu.hk www.cityu.edu.hk/ceng

JUPAS Catalogue No./ Admission Code

## JS1201/ 1201

## Department of Architecture and Civil Engineering

### Architecture and Civil Engineering

*(Majors: BEng Building Services Engineering / BEng Civil Engineering / BSc Architecture and Surveying)*

### Building Services Engineering

This major is fully accredited by the Hong Kong Institution of Engineers (HKIE) as a recognised degree for applying professional engineer qualification. The major aims to provide students with the academic background necessary for a professional building services and architectural engineer. They will be able to manage the design, manufacturing, installation, commissioning and maintenance of various building services engineering systems including air-conditioning systems, electrical services, fire protection systems and pipe systems. They will also be equipped with the concept of integration between various disciplines within the building services and architectural engineering and also the other trades of the building industry.

### Architecture and Surveying

*(with two streams in Architecture / Surveying and Urban Informatics)*

This major with two streams in Architecture and Surveying and Urban Informatics aims to provide students with an environment that can develop their intellectual, analytical and critical abilities, and enable the graduates to become competent, skilled, and reflective new members of the architecture or surveying profession. This major also equips students with well-developed interdisciplinary knowledge to facilitate them to communicate effectively; contribute through team and individual application of skills and knowledge to resolve practical construction-related problems; commit to lifelong learning; and build up leadership skill in the building and construction professions.

### Civil Engineering

This major is fully accredited by the Hong Kong Institution of Engineers (HKIE) as a recognised degree for applying professional engineer qualification. This major aims at equipping students with a solid foundation to work as a civil engineer. It covers a wide spectrum of areas, for example, construction technology and materials, engineering management, environmental engineering, geotechnical engineering, green urbanism, hydraulic engineering, structural engineering and transportation engineering. There are two specialisms in the major: structural engineering, and infrastructure and smart city. Graduates are expected to work as civil/structural engineers, geotechnical engineers, construction and site engineers, construction project managers, building engineers, transport engineers, etc., in private and government sectors. There are opportunities for further studies and research at graduate levels in Hong Kong, the Chinese Mainland and overseas.

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JUPAS Catalogue No./ Admission Code

# JS1205/ 1205

## Department of Electrical Engineering

### Electrical Engineering

*(Majors: BEng Computer and Data Engineering / BEng Electronic and Electrical Engineering / BEng Information Engineering / BEng Microelectronics Engineering)*

### Computer and Data Engineering

This major aims to provide students with a robust foundation in computer systems, with a strong emphasis on data-driven technologies and artificial intelligence (AI). The curriculum covers (1) Software and hardware design; (2) Data science, machine learning and AI; (3) IoT and cybersecurity; (4) Cloud computing and big data management. Graduates will develop expertise in areas such as AI systems, data analytics, and computer vision, preparing them for diverse engineering roles, postgraduate studies, or lifelong learning in this fast-evolving field.

### Electronic and Electrical Engineering

This major aims to provide students with a solid education in advanced electronic and electrical technologies. Students will be exposed to the latest developments in (1) Wireless communications and data technology; (2) Microwave, terahertz and optical technologies; (3) Photonic, electronic, and sensor devices; (4) Smart control and electrical power systems; and (5) Bioelectronics and bioinformatics. Our programme will transform students into well-trained professional engineers, ready to thrive in a rapidly changing, knowledge-based economy. Throughout their training, students will be equipped with the skills, vision, and opportunities needed to advance in their career path.

### Information Engineering

This major aims to equip students a balanced understanding of the theory and applications of information engineering, which encompasses networking, communications, cybersecurity, AI, AI system and product lifecycle management, multimedia, and algorithms and optimisation. It offers all-round education, which nurtures independent thinking, creativity, and various soft skills. Upon completion of the major, graduates will be sufficiently prepared for further studies or employment in a wide range of economic sectors, mainly technology, but also business, banking, finance and trading in Hong Kong and the Asia-Pacific region.

### Microelectronics Engineering

The major aims to provide students with sound knowledge of the fundamental principles involved in the design and fabrication of integrated circuits (ICs), and a comprehensive understanding of electronics and information technologies. The curriculum includes application specific IC (ASIC) design for novel applications, nanotechnologies for high-performance devices and microsystems, new designs and materials for ICs, digital processor, system-on-chip, wireless and optical communications, and embedded system design. Upon completion of the major, students will be sufficiently prepared for employment in various sectors of the microelectronics and electronics industry, and well equipped with fundamental knowledge for pursuing postgraduate studies.

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JUPAS Catalogue No./ Admission Code

# JS1207/ 1207

## Department of Mechanical Engineering

### Mechanical Engineering

*(Majors: BEng Aerospace Engineering / BEng Mechanical Engineering / BEng Nuclear and Risk Engineering)*

### Aerospace Engineering

The aerospace engineering major aims to provide students with a significantly broad base of engineering skills. They will meet the needs of the current and the changing aerospace industry, such as smart manufacturing, smart inspection, supersonic flight technologies, space flight, the next generation aircraft (e.g. unmanned flying vehicles, bio-inspired flying vehicles and electric aircrafts). Moreover, the multidisciplinary education also enhances graduate employment in areas such as technical services, consultancy, manufacturing and finance, which is aligned with the manpower need in Hong Kong.

### Mechanical Engineering

This major aims to provide a well-structured curriculum that combines education, research and development of innovative technologies which enables students to tackle engineering problems in mechanical-related areas efficiently and independently. It equips students with critical thinking, independent research abilities, qualitative and quantitative analysis capacities, and also prepares them for professional employment in areas such as engineering design of materials, dynamical and control analysis, automation engineering, and micro and nanotechnologies.

### Nuclear and Risk Engineering

This major aims to equip students with multi-disciplinary knowledge in nuclear and risk engineering to meet the growing demands in low carbon power generation, healthcare and risk engineering sectors. Graduates can work in a broad spectrum of related professions or industrial sectors, such as nuclear power industry, materials engineering, nuclear medicine related fields, radiation protection, environmental protection, nuclear radiation equipment industry, risk assessment in the financial sector and also disaster management.

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JUPAS Catalogue No./ Admission Code

# JS1210/ 1210

## Department of Materials Science and Engineering

### BEng Materials Science and Engineering

*(Features: HKIE Accredited / Industrial and Research Internships / Overseas Double-degrees / Knowledge Transfer / World-leading Research)*

'Materials' is the key for new technology development. Recent government supported initiatives in developing Hong Kong as a smart city have significantly increased the job opportunities in materials related industries. This major aims at training young talents to facilitate the development of local high-tech industries. Students will be provided with solid foundation of science in construction, semiconductor, polymer, metallic alloy, nano, and bio materials. The Department of Materials Science and Engineering is equipped with world-class facilities and emphasis will be put on providing hands-on training in materials fabrication, materials processing, characterisation, and materials simulation using computational method. During the four-year programme, students will be provided with a solid foundation in the science of construction materials, semiconductors, polymers, biomaterials, and AI-driven materials discovery. Upon graduation, they will become graduate members of the Hong Kong Institution of Engineers (HKIE) and professional engineers after completing the professional assessment.

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For details about entrance requirements and programme information, please visit: www.cityu.edu.hk/admo

JUPAS Catalogue No./ Admission Code

# JS1216/ 1216

## Department of Systems Engineering

### BEng Intelligent Manufacturing Engineering

*(Features: Industrial Internet-of-Things / Industrial Big Data / Robotics and Automation / Logistics and Supply Chain / Smart City Engineering)*

This major aims to develop young talents for "Industry 4.0" and "intelligent manufacturing". The major emphasises the use of AI, computer modelling and optimisation, industrial big data, Internet of Things, automation and robotics in smart manufacturing and smart organisations. Our graduates will possess the practical skills and knowledge for innovating and managing the operations of modern manufacturing enterprises. These skills and knowledge will also apply to service industries and commercial enterprises to automate and digitalise their various processes, to push for higher and higher efficiency. The major has been granted full accreditation by the Hong Kong Institution of Engineers (HKIE).

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JUPAS Catalogue No./ Admission Code

# JS1219/ 1219

## Department of Systems Engineering

### BEng Innovation and Enterprise Engineering

*(Features: Engineering / Technology / Innovation / Enterprise / Entrepreneurship)*

This programme in Innovation and Enterprise Engineering aims to nurture a new generation of engineers equipped with an innovation and entrepreneurial mindset, and facilitate opportunities for tech start-ups for young entrepreneurs. The programme covers and integrates elements of systems design and process, engineering innovation and entrepreneurship. The programme emphasises the use of state-of-the-art AI, data analytics, and management science in engineering sector and organisations. Our graduates will possess practical skills and knowledge for engineering innovation and enterprises which are also applicable in other service industries and commercial enterprises. The programme is a unique undergraduate engineering education package in Hong Kong.

(852) 3442 9321 | sye.office@cityu.edu.hk | www.cityu.edu.hk/sye

# Joint Bachelor's Degree Programme

Joint Bachelor's Degree Programmes provide students with an international undergraduate educational experience. Students will spend two years at CityUHK and two years at the partner university. On completion of the curriculum requirements of both universities, students will earn two bachelor's degrees - one from CityUHK and one from the partner university.

## National Taiwan University, Taiwan, China

### Curriculum Design

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| CityUHK | NTU | NTU | CityUHK |

### Eligible Majors

- BEng in Civil Engineering
- BEng in Materials Science and Engineering

**For more information, please visit:**

Civil Engineering

Materials Science and Engineering

## CentraleSupélec, Paris-Saclay University, France

### Curriculum Design

Students may choose to begin their studies at either CentraleSupélec, Paris-Saclay University or College of Engineering, CityUHK.

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| CentraleSupélec | CentraleSupélec | CityUHK | CityUHK |

| | |
|---|---|
| CentraleSupélec | BEng Innovation Engineering and Entrepreneurship |
| CityUHK | ▪ BEng Aerospace Engineering<br>▪ BEng Computer and Data Engineering<br>▪ BEng Electronic and Electrical Engineering<br>▪ BEng Information Engineering<br>▪ BEng Innovation and Enterprise Engineering<br>▪ BEng Intelligent Manufacturing Engineering<br>▪ BEng Materials Science and Engineering<br>▪ BEng Mechanical Engineering<br>▪ BEng Nuclear and Risk Engineering |

| Year 1 | Year 2 | Year 3 | Year 4 |
|---|---|---|---|
| CityUHK | CityUHK | CentraleSupélec | CentraleSupélec |

| | |
|---|---|
| CityUHK | BEng Innovation and Enterprise Engineering |
| CentraleSupélec | BEng Innovation Engineering and Entrepreneurship<br>Streams*:<br>▪ Bioengineering<br>▪ Computer and AI<br>▪ Electrical Engineering<br>▪ Mechanical Engineering |

*Availability of the streams is subject to confirmation by CentraleSupélec.

**For more information, please visit:**

# College of Engineering

- Department of Architecture and Civil Engineering (ACE)
- Department of Electrical Engineering (EE)
- Department of Materials Science and Engineering (MSE)
- Department of Mechanical Engineering (MNE)
- Department of Systems Engineering (SYE)
- Co-operative Education Centre

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CENG

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