

Department of Civil and Environmental Engineering 土木及環境工程學系

Civil Engineering CIVIL

4 YEAR PROGRAM

The Program

Civil Engineering concerns the planning, design, construction, maintenance and management of various types of structures. Examples include buildings, bridges, roads, railways, tunnels, airports, harbor facilities, slopes, dams, landfills, water pipes, water and sewage treatment plants, power lines, gas mains and various other structures. In short, Civil Engineering is about the infrastructure of modern civilization.

Civil Engineering program aims at equipping students with the technical skills, intellectual aspiration and humanistic appreciation needed to

- (i) build infrastructure systems locally and worldwide, and
- (ii) maintain a safe, clean and sustainable environment.

Entrance Requirements to School of Engineering

JUPAS applicants

- Level 2 or above in Liberal Studies
- Level 3 or above in English Language, Chinese Language, Mathematics (Compulsory Module), and either 2 electives⁺ or 1 elective⁺ plus M1* / M2**

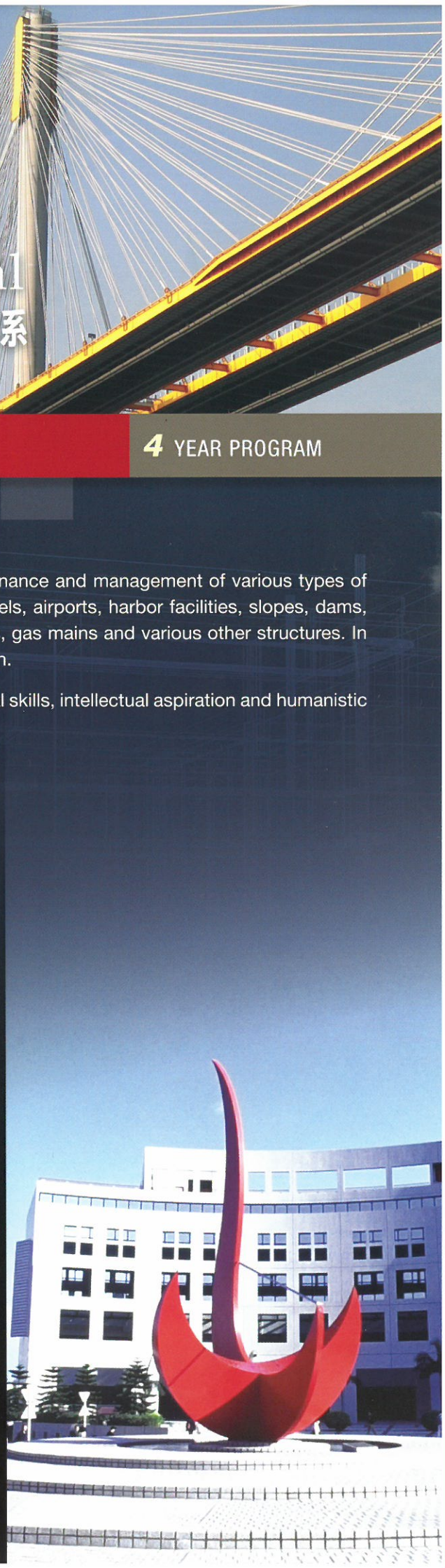
⁺ One elective must be Biology/ Chemistry/ Physics/ Combined Science/ ICT

* M1: Mathematics Extended Module 1 (Calculus & Statistics)

** M2: Mathematics Extended Module 2 (Algebra & Calculus)

Direct-entry applicants

- Holders of an associate degree or a higher diploma from a relevant discipline; or
- Local international high school graduates; or
- International or mainland students holding equivalent admission requirements.



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Curriculum

Required courses in civil engineering

Optional elective courses in the following areas

- Construction management and financial engineering
- Geotechnical engineering
- Structural engineering
- Construction materials
- Transportation engineering
- Water resources and hydraulics engineering

Optional minor programs

- Aeronautical engineering
- Bioengineering
- Engineering management and law
- Environmental sustainability and management
- Information technology
- Technology management
- Maths, science, business, humanities or social science

Professional Recognition

The BEng in Civil Engineering program offered by the Department of Civil and Environmental Engineering at HKUST is accredited by the Hong Kong Institution of Engineers (HKIE). Graduates are eligible to apply for Graduate Membership in the HKIE.

Career Prospects

Graduates of the BEng in Civil Engineering program have excellent opportunities to work in a wide range of areas such as government departments, engineering consulting firms and construction companies, etc. A civil engineering education also provides a good foundation to pursue future careers as middle-to-top level managers and sales/technical representatives in a wide range of businesses.

Websites

Department of Civil and Environmental Engineering

<http://www.ce.ust.hk>

HKUST Admissions Office

<http://join.ust.hk/index.html>

Enquiries

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