Undergraduate Degrees:
- Bachelor of Engineering in Civil Engineering
- Bachelor of Engineering in Architectural Engineering
- Bachelor of Science in Surveying
- Bachelor of Science in Architectural Studies

The Department is uniquely placed in Hong Kong with its multidisciplinary faculty members including experts in civil engineering, architectural engineering, construction engineering and management, urban design and planning, building science, architecture and surveying, all within one academic unit.

Internationalization and Diversity

Discovery and Creativity

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CityU’s ranking according to QS World University Rankings as of 2018:
- 4th in Top 50 under 50*
- 48th in Civil and Structural Engineering by Subjects
- 8th in Top Universities in Asia, 49th in Worldwide

* Top 50 universities under 50 years old

Nearly 100% Employment Rate for Our Majors in Recent Years!
**Our Students:**

Our students are equipped for the huge manpower demand in Hong Kong and China generated by numerous mega infrastructure projects, high-rise complex buildings, high-speed and metro railways and rapid urban development.

Our undergraduate majors are professional discipline specific and aim to serve the Architecture, Engineering and Construction community by preparing graduates with the necessary skills and knowledge for the development of the built environment.

**Our Graduates:**

**PROFESSIONAL POSITIONS**

Engineers / Surveyors / Architectural professionals in Government Departments and Leading Consultancy Offices such as ARUP, AECOM, Gammon, LangdonSeah Ltd., Rider Levett & Bucknall Ltd., Swire Property Ltd.

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**Core Courses**

**BEng in Civil Engineering**
- Construction Materials
- Mechanics of Structural Materials
- Design of Structural Elements
- Fluid Mechanics
- Geology for Engineers
- Soil Mechanics
- Geotechnical Analysis and Design
- Transportation Engineering
- Environmental Engineering
- Integrated Building Project Development
- Final Year Project

**BEng in Architectural Engineering**
- Thermal Engineering
- Building Science
- Environmental Engineering
- Construction Contract
- Electrical Services
- HVAC Engineering
- Fire Engineering & Piped Services
- BIM for Capital Projects
- Integrated Building Project Development
- Architectural Engineering Design Practice
- Final Year Project

**BSc in Surveying**
- Development Economics
- Construction Contracts
- Construction Materials
- Building Science
- Building Technology
- Construction Economics
- Surveying Studio
- Building Technology
- Building and Fire Safety Control
- Building Services for Surveyors
- Building Design and Appraisal
- Strategic BIM Management in Construction
- Integrated Building Project Development
- Final Year Project

**BSc in Architectural Studies**
- Architectural Design: Emergent Space Form
- Programming and Typology
- Urban Interventions
- Tectonics Inquiry
- Historical Architecture
- Construction Technology and Structural Planning
- Building and Land Use Control
- Sustainable Architectural Design and Development
- Integrated Building Project Development
- Final Year Project

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**Themes of Study:**

**Building Technology**
- Structural / geotechnical engineer in professional consulting firms
- Project manager in main contractors / real estate developers
- Registered professional civil / structural engineer

**Construction Technology and Management**
- Engineering in the property management sector
- Project manager, property manager in real estate developers

**Water Resources and Environmental Engineering**
- Project manager in water and environmental engineering firms
- Registered environmental engineer

**Civil Engineering**
- Professional careers: structural engineer, fluid dynamics engineer, geotechnical engineer, concrete mixer manufacturer, construction technology, geotechnical engineering, infrastructure and metro system are constructed. This is one of the most dense cities in the world, high-speed and metro railways and rapid urban development.

**Environmental Engineering**
- Development of the built environment.

**Environmental & Water Engineering Laboratory**
- Wind Tunnel
- Soil Mechanics and Geology Laboratory
- Heavy Structures Testing Laboratory
- Facilities:
**BEng in Civil Engineering**

**Themes of Study:**
- Structural Analysis and Design
- Geotechnical Engineering and Foundation Design
- Hydraulics and Hydrology
- Water Resources and Environmental Engineering
- Transportation Engineering
- Construction Technology and Management

**Major Aims:**
Hong Kong is well-known to the world for its high population density. Super tall buildings, complex infrastructure and metro system are constructed. This major aims at equipping students with a solid foundation to work as a civil engineer. The major covers a wide spectrum of topics, for examples, construction technology, geotechnical engineering, structural engineering, engineering management, transportation engineering, hydraulic engineering and environmental engineering.

**Professional Careers:**
- Registered professional civil / structural engineer
- Authorized person
- Project manager in main contractors / real estate developers
- Structural / geotechnical engineer in professional consultancy firms
- Opportunities in construction and property management sectors
- Other professional consultants

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**BEng in Architectural Engineering**

**Themes of Study:**
- Building Services Engineering Design
- Electrical Services
- Fire Engineering
- Heating, Ventilation and Air-conditioning
- Piped Services

**Major Aims:**
Being one of the most dense cities in the world, modern buildings need to provide a safe, healthy and comfortable indoor environment for their use. Architectural engineering consists of the design, manufacturing, installation, commissioning and maintenance of building services systems in buildings. It is an integrated major that includes expertise in heating, ventilation and air-conditioning, electrical services, fire engineering, piped services, building energy, indoor air quality, etc.

**Professional Careers:**
- Project manager, property manager in real estate developers
- Project manager in main contractors
- Engineer in a professional consultancy firm
- Register professional engineer in various government departments (e.g. Housing, Architectural Services, Electrical and Mechanical Services Department, etc.)
- Opportunities in construction, real estate and property management sectors

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**Specialized Electives**

**BEng in Civil Engineering**
- Wind and Earthquake Engineering
- Transport Policy and Planning
- Highway Engineering
- Sustainable Urbanism

**BSc in Surveying**
- Property Valuation
- Property and Facilities Management
- Asset Management
- Land Use Planning and Applied Valuation
**BSc in Surveying**

**Themes of Study:**
- Construction Technology and Maintenance
- Construction Contracts and Project Management
- Law for Construction
- Property Economics
- Arbitration and Dispute Resolution
- Strategic BIM Management in Construction

**Major Aims:**
The Surveying major aims at equipping students with knowledge of land, property, and construction for a career in the real estate and construction industry. The major provides integrated training for construction and real estate, especially for quantity surveyors who manage the construction cost and building surveyors who survey the building performance and conditions.

**Professional Careers:**
- Quantity surveyor
- Building surveyor
- Building control officer
- Cost consultant
- Contract advisor
- Estimator
- Maintenance surveyor
- Project manager

- Various roles in the construction and real estate industry

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**BSc in Architectural Studies**

**(Separate Top-Up Degree Programme : Senior Year Place intake Advanced Standing II)**

**Themes of Study:**
- Architectural Design
- Building and Environmental Technology
- Sustainable and Green Architecture
- Digital Design and Communication
- Professional Practice
- History, Theory and Criticism

**Major Aims:**
This major aims to produce internationally qualified architectural professionals to support Hong Kong’s move to a knowledge-based economy and a world-class city. It offers a well-balanced curriculum with emphasis on the technological aspect of architectural design and construction. It is also designed to equip participants with the concept of full integration between various disciplines within architectural studies.

**Professional Careers:**
- Architect
- Architectural Designer
- Graphic artist / Designer
- Interior designer
- Project manager
- Urban designer
- Other professional consultants

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**ASc in Architectural Studies**

**(Associate Degree Programme : Year 1 and 2)**

**Themes of Study:**
- Architectural Design
- Building and Environmental Technology
- Sustainable and Green Architecture
- Digital Design and Communication
- Professional Practice
- History, Theory and Criticism

**Major Aims:**
This major aims to produce internationally qualified architectural professionals to support Hong Kong’s move to a knowledge-based economy and a world-class city. It offers a well-balanced curriculum with emphasis on the technological aspect of architectural design and construction. It is also designed to equip participants with the concept of full integration between various disciplines within architectural studies.

**Professional Careers:**
- Architect
- Architectural Designer
- Graphic artist / Designer
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- Other professional consultants

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**BEng in Architectural Engineering**

- Fire Science and Modelling
- Fire Engineering Approach
- Advanced HVAC Systems
- Air Quality and Ventilation
- Electrical Engineering Practice
- Power Electronics & Lighting

**BSc in Architectural Studies**

- Theory in Architectural and Urban Design
- Architectural Spatial Analysis
- Advanced Computer Aided Design
- Digital Media in Architecture

**Minors:**
- Civil Engineering
- Surveying

**Facilities:**
- Heavy Structures Testing Laboratory
- Soil Mechanics and Geology Laboratory
- Wind Tunnel
- Building Services Laboratory
- Design Studio
- Project Laboratory
- Environmental & Water Engineering Laboratory

**Scholarships:**
Every year about 450 university scholarships available for our outstanding undergraduate students.
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Website
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Enquiries
(852) 3442 7609

E-mail
acedept@cityu.edu.hk