About the Department

The Department is unique in Hong Kong with its multidisciplinary faculty members including experts in civil engineering, structural engineering, architectural engineering, construction engineering and management, urban design and planning, building science, architecture and surveying, all within one academic unit. The Department has established an international network with universities and professional bodies worldwide for both academic and research collaborations. Excellent opportunities for overseas exchange and internships are available to our students. Our graduates are professionally trained and therefore uniquely placed to serve the Architecture, Engineering and Construction industry.

Professional Positions for Our Graduates

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

Nearly 100% employment rate for graduates from our majors in recent years! Many students have two or more job offers before graduation.

Education Facilities

- Heavy Structures Testing Laboratory
- Soil Mechanics and Geology Laboratory
- IBIM Centre
- Building Services Laboratory
- Design Studio
- Wind Tunnel Testing Facility
- Environmental & Water Engineering Laboratory

Scholarships

Every year about 450 university scholarships available for our outstanding undergraduate students.

Professional Recognitions

BEng in Civil Engineering and BEng in Architectural Engineering are fully accredited by the Hong Kong Institution of Engineers (HKIE) as a recognized degree for applying professional engineer qualification. BSc in Surveying is accredited by the Hong Kong Institute of Surveyors (HKIS). BSc in Architectural Studies is accredited by the Hong Kong Institute of Architects (HKIA).

Integrated Building Project Development (IBPD) – A unique multi-disciplinary practical project-based course

The IBPD is a mandatory course for final year students of all bachelor degree programmes currently run by the Department of Architecture and Civil Engineering. These programmes cover the studies of architecture, civil and structural engineering, building services engineering, and surveying.

Students are required to use Building Information Modelling (BIM) across all disciplines in the project development process of this course.
Bachelor of Science in Architectural Studies [BArch] 1093

This major aims to produce internationally qualified architectural professionals to support Hong Kong's move towards 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 students with a broad range of skills necessary for practice in different disciplines within architectural studies.

Themes of study:
- Architectural design, history, theory and criticism
- Building and environmental technology
- Sustainable and green architecture

Professional careers:
- Architect and architectural designer
- Urban designer
- Interior designer
- Project manager

Bachelor of Science in Surveying [BSc (Hons) 1215]

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 surveys who survey the building performance and conditions.

Themes of study:
- Building control
- Contract and dispute resolution
- Construction technology
- Construction and project management
- Law for construction
- Property economics

Professional careers:
- Quantity surveyor
- Expert in the costing and contractual matters in development projects
  - Cost consultant
  - Contract advisor
  - Estimator
- Building surveyor “Building Doctor”, who specializes in building control and performance
  - Maintenance supervisor
  - Building control officer
  - Project Manager and authorized person

Bachelor of Engineering in Civil Engineering [BEng] 1214

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. Hong Kong is well-known to the world for its high population density. The high demand on super tall buildings, complex infrastructure and metro systems makes civil engineering an important profession in Hong Kong.

Themes of study:
- Structural analysis and design
- Geotechnical engineering and foundation design
- Water resources and environmental engineering
- Transportation engineering
- Construction technology and management
- Hydraulics and hydrology

Professional careers:
- Registered professional engineer in civil structural and geotechnical engineering disciplines
- Project manager
- Authorized person

Bachelor of Engineering in Architectural Engineering [BEng] 1213

Being one of the densest 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.

Themes of study:
- Building services engineering
- Building energy
- Heating, ventilation and air conditioning
- Fire engineering
- Piped services
- Electrical services

Professional careers:
- Registered professional engineer in building services, energy and fire engineering disciplines
- Project manager
- Property manager
- Equipment supply engineer
- Site engineer
- Consulting engineer

Department of Architecture and Civil Engineering [S412] 1212

In this programme, students will be admitted to the Department in Year 1. Under normal situation, students will have a free choice of majors in Year 2 and enter into one of the three programmes (i.e., BEng Architectural Engineering, BEng Civil Engineering, or BSc Surveying).