

English Proficiency Requirements

Applicants whose entrance qualification is obtained from an institution where the medium of instruction is NOT English should also fulfill the following minimum English proficiency requirements:

a TOEFL score of 550 (paper-based test) or 213 (computer-based test) or 79 (internet-based test); or

an overall band score of 6.5 in International English Language Testing System (IELTS); or

Score 450 in the new College English Test (CET-6) of mainland China or a pass in the old CET-6 test; or

other equivalent qualifications.

Tuition Fees

The tuition fees are subject to annual review. For the information, please visit the website of the Chow Yei Ching School of Graduate Studies:

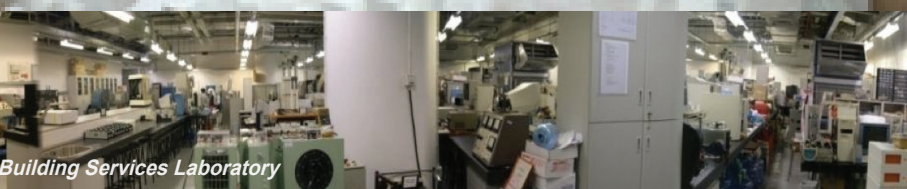
www.sgs.cityu.edu.hk/prospective/tpg/

CityU's ranking according to QS World University Rankings 2014

- ▶ **4th** in Top 50 under 50 (*Top 50 universities under 50 years old*)
- ▶ **31st** in Civil and Structural Engineering by Subjects
- ▶ **11th** in Top Universities in Asia

Facilities

Building Services Laboratory
Indoor Air Quality Laboratory
Environmental and Water Engineering Laboratory
Heavy Structures Testing Laboratory
Soil Mechanics and Geology Laboratory
Wind Tunnel Testing Facility
Design Studio
Model Making Workshop
Mechanical Workshop



Normal Study Period

MSc CAE, MSc CM

1 years (Full-time)

2 years (Part-time)

MUDP, MArch

2 years (Full-time)

4 years (Part-time)

Application

Application for the programmes can be submitted online. For details, please visit the university's website at www.cityu.edu.hk/sgs

Shortlisted candidates may be required to attend an interview. All successful applicants will be informed in due course.

Enquiries

Chow Yei Ching School of Graduate Studies

Tel: 3442 5588

Fax: 3442 0187

Online enquiry from:
www.cityu.edu.hk/sgs/enquiry

Internationalization and Diversity

We are proud of having a strong team of outstanding faculty members with diverse ethnic backgrounds, research interests and professional expertise, who are dedicated to advancing and disseminating knowledge.

Discovery and Creativity

The discovery-enriched curriculum enables our students to make an original discovery to create new knowledge and cultivate it to benefit society.

Our students benefit from multi-cultural learning environment and multi-disciplinary professional education. Equipped with the state-of-the-art knowledge and technologies, our graduates aspire to become the pillars supporting our contemporary society.

Website: www.ace.cityu.edu.hk

Enquiries: (852) 3442 7609

E-mail: acedept@cityu.edu.hk

INTERNATIONAL STAFFING AND STUDENTS



DISCOVERY-ENRICHED CURRICULUM



“

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

”

Meeting the World's Challenges

**Build Tomorrow
Create the Future**

DEPARTMENT OF ARCHITECTURE AND CIVIL ENGINEERING

Taught Postgraduate Programmes

- **Master of Science in Civil and Architectural Engineering (MScCAE)**
(Buildig Cost Construction Management | Building Services | Civil Engineering)
- **Master of Science in Construction Management (MScCM)**
(Construction Project Management | Real Estate Project Management)
- **Master of Urban Design and Regional Planning (MUDP)**
- **Master of Architecture (MArch)**



Master of Science in Civil and Architectural Engineering

Programme Code: P60

- Building Construction Cost Management (BCCM)
- Building Services (BSE)
- Civil Engineering (CE) [3 Streams]

Programme Aims:

- To upgrade existing construction related professionals with the knowledge of advanced civil engineering, urban design and planning, cost control and management;
- To produce experts in all aspects of cost engineering, urban design and planning, civil engineering and building services;
- To provide a route of continue education to graduates of construction related disciplines;
- To provide multi-disciplinary approach for civil, urban design, planning, building services and construction professionals;
- To carry research works in various related disciplines.

Programme Structure

The programme consists of 30 credit units with a core of 6 required courses (21 credit unit for Full-time, 15 credit units for Part-time) and various electives courses (9 credit units for Full-time, 15 credit units for Part-time). Students are expected to complete the programme within 1 year (for full-time students) or 2 years (for part-time students).

Core Course:

Building Engineering Systems and Maintenance (BCCM), Building Energy and Daylighting (BSE), Civil Engineering Studies (CE), Professional Research Methods, Economics for the Built Environment, Contract Strategy and Administration, Modelling and Computational Techniques, Dissertation

Elective Course: (BCCM) Production Management, Civil Engineering Studies, Cost Engineering, Decision Analysis, Value Management for Construction, Contract and Dispute Management, Financial Management in Construction, Strategic Operation and Maintenance; **(BSE)** Indoor Air Quality, Applied Fire and Plumbing Engineering, Building Electrical and Electronic Engineering, Applied HVAC Engineering; **(CE)** Structural Dynamics and Applications, Transportation and Land Planning, Theoretical and Computational Soil Mechanics, Building Engineering Systems and Maintenance, Geotechnical and Foundation Engineering, Modern Structural Engineering

Programme Leader

Prof. SM Lo, *PhD Arch (HKU)* Tel: 3442-7683 Email: bcsml@cityu.edu.hk

Associate Programme Leader for BCCM stream

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Associate Programme Leader for BSE stream

Dr. G S Huang, *BEng (SC), MEng (SC), PhD (Oxford)* Tel: 3442-7633 Email: gongsheng.huang@cityu.edu.hk

Associate Programme Leader for CE stream

Dr. Jeff Wang, *BSc (Tongji), MSc (Tongji), PhD (Virginia Tech)* Tel: 3442-6787 Email: jefwang@cityu.edu.hk

Building Construction Cost Management Stream (BCCM):

Programme Intended Learning Outcomes:

1. Build up a strong and solid knowledge base in costing, cost control, architectural engineering and building services engineering for application in the industry;
2. Integrate knowledge and skills in costing, cost control, architectural engineering and building services engineering in different areas of building and construction by fulfilling all requirements in cost planning and management, energy efficiency and machine performance;
3. Create research approach to solve problems in the cost management in various building engineering aspects;
4. Produce economical and financial analyses on building engineering systems;
5. Appraise, analyse and evaluate the concerns of architects, engineers and surveyors.

Building Services Stream (BSE):

Programme Intended Learning Outcomes:

1. Define and appreciate building services systems in modern complex buildings;
2. Produce quantitative assessment on the performance of modern building services systems;
3. Record, review and evaluate the state-of-the-art technology of building services;
4. Create research approach to solve problems in the various areas in building services engineering;
5. Ensure effective communication between building services engineering related professionals on one side and architects, civil and structural engineers, surveyors and constructors on the other side.

Civil Engineering Stream (CE):

Programme Intended Learning Outcomes:

1. Build up a strong and solid knowledge in civil engineering for application in the industry;
2. Practice knowledge in civil engineering in construction areas by filling all requirements in technology, management, environment and efficiency;
3. Create research approach to solve problems in the civil engineering;
4. Create innovative ideas to improve the efficiency of the civil related works;
5. Appraise the latest technologies in civil engineering.

Master of Science in Construction Management

Programme Code: P52

- Construction Project Management (CPM)
- Real Estate Project Management (REPM) [2 Streams]

Programme Aims:

- To provide students with environment in which to develop their intellectual, analytical and critical abilities and to enable them to exercise these abilities in the built environment and the international project management field
- To provide a basis for continuing professional development, and encouragement for professional specialisation in the local construction industry. This platform is achieved by maintaining balance activities among research, intellectual and professional developments

Programme Intended Learning Outcomes:

Upon successful completion of this Programme, students should be able to:

1. Apply the financial management technique in real estate development projects and/or construction works;
2. Analyze economics of real estate development projects and/or construction works and related process;
3. Apply effective project management techniques to real estate development projects and/or construction works;
4. Apply contracts management to real estate development projects and/or construction works;
5. Implement effective resources management to real estate development projects and/or construction works;
6. Explain the relationship between the project control functions and business management functions of a developer and/or the same of a construction firm and utilize advanced techniques and technology which are available for enhancement of effectiveness and efficiency of the planning and control functions;
7. Make an original discovery and innovative in the learning process in compliance with CityU's academic strategy.

Programme Structure

The programme consists of 30 credit units with a core of 5 required courses (18 credit unit for Full-time, 12 credit units for Part-time) and various electives courses (12 credit units for Full-time, 18 credit units for Part-time). Students are expected to complete the programme within 1 year (for full-time students) or 2 years (for part-time students).

Specific Programme Aims:

- To develop qualified and experienced real estate and construction professionals become professional managers and leaders in the field with the management principles and techniques required for the effective management of the real estate development and construction process
- To develop the potential professional manager's leadership, maximising quality attainment in the built project, and developing the international vision on the project management field

Core Courses

Management Workshop, Project Management, Contract and Dispute Management, Financial Management in Construction, Dissertation

Construction Project Management (CPM) Stream Electives:

Production Management, Automation in Construction, Real Estate Investment in China, Decision Analysis, Economics for the Built Environment, Contract Strategy and Administration, Professional Research Methodology, Design Management, Value Management, Dissertation

Real Estate Project Management (REPM) Stream Electives:

Economics for the Built Environment, Real Estate Development, Transportation and Land Planning, Green Building, Architecture and People, Property Economics, Value Management, Sustainable Urban Development, Real Estate Investment in China, Geographic Data Management and Planning Analysis, Professional Research Methodology, Dissertation

Programme Leader

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Associate Programme Leader for CPM

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Associate Programme Leader for REPM

Dr. Z Chang, *BArch (Tianjing) MArch (Tsinghua), MUP (Harvard), DDes (Harvard)* Tel: 3442-5434 Email: zchang@cityu.edu.hk

Master of Urban Design and Regional Planning

Programme Code: P64

Programme Aims:

- To enhance existing construction related professional with the knowledge of urban design and regional planning
- To produce experts with comprehensive knowledge of urban design and regional planning
- To offer a route for further study to graduates of construction related disciplines
- To provide multi-disciplinary approach for architecture, civil engineering, urban design, urban planning, building services and construction professionals
- To train/equip students with the skills for carrying out research works in various related disciplines

Programme Intended Learning Outcomes:

Upon successful completion of this Programme, students should be able to:

1. Review and evaluate in-depth knowledge of urban design and regional planning;
2. Interpret and comply with legal aspects of building, urban design and regional planning;
3. Develop comfort, convenience and safety planning of the built environment to meet the society's performance;
4. Develop research approach to solve problems in the various areas in building and urban design performance;
5. Appraise the professional practice for urban design and regional planning and the corresponding regulations and code of practice.

Course Description

Each student must satisfactorily complete at least 60 credit units before Master of Urban Design and Regional Planning (MUDP) is awarded. The total 60 credit units comprise two parts, namely the core courses (39 credit units) and elective courses (21 credit units). Reference should be made to the programme document and the student handbook for the criteria of choosing electives.

Programme Leader

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Associate Programme Leader

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MUDP: full accreditation by the Royal Institution of Chartered Surveyors (RICS) in the form of partnership.

Master of Architecture

Programme Code: P65

Programme Aims:

- To provide a professional education in the discipline of architecture
- To upgrade existing architectural studies' graduates with the knowledge and practice in architecture
- To provide multi-disciplinary approach for architectural professional practices embracing civil engineering, urban design, urban planning, building services, construction engineering and engineering management
- To train students with the skills for carrying out research works in architecture related disciplines

Programme Intended Learning Outcomes:

Upon successful completion of this Programme, students should be able to:

1. Review and evaluate in-depth knowledge of architecture;
2. Interpret and comply with legal aspects of architectural design;
3. Develop comfort, convenience and safety planning of the built environment with multi-disciplinary approach and sustainable design to meet the society's needs;
4. Develop research approach to solve problems in the various areas in architecture;
5. Appraise building construction related regulations and practice.

Course Description

Each student must satisfactorily complete at least 60 credit units before Master of Architecture (MArch) is awarded. The total 60 credit units comprise two parts, namely the core courses (39 credit units) and elective courses (21 credit units). The programme has particular emphasis on developing mastery of design for students through an intensive series of design studio courses and on developing students' knowledge in modern building engineering

Programme Leader

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Associate Programme Leader

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