



# MSc in Civil Engineering

## Why PolyU CEE?

### Highlight of CEE Faculty



Member of the  
Chinese Academy of Sciences



Chang Jiang Scholars

### International Recognition



Best Universities for  
Civil Engineering  
U.S. News & World Report  
Best Global Universities  
Rankings 2022



Civil Engineering  
ShanghaiRanking's  
Global Ranking of  
Academic Subjects 2022



Transportation Science  
& Technology  
ShanghaiRanking's  
Global Ranking of  
Academic Subjects 2022



Civil and Structural  
Engineering  
QS World University  
Rankings  
by Subject 2022

## Programme Aims

Through this programme, students will pursue in-depth studies related to civil engineering or broaden their knowledge of civil engineering by studying topics that are beyond their present field.

We are keen to develop students' abilities to design engineered systems or processes to meet the desired needs in civil engineering projects within realistic constraints.

Our programme is designed to cultivate students' strategic thinking skills in solving complex problems and dealing with situations pertinent to their professional practice, and to enhance their learning capabilities for continual professional development through inquiry and reflection on professional practice.

## Study Pattern

- 10 subjects (at least 7 core subjects and at most 3 elective subjects) or
- 7 subjects (at least 4 core subjects and at most 3 elective subjects) plus Dissertation

Part-time students are strongly advised not to take more than 3 subjects per semester due to the heavy study load.

## Admission Scholarship

Full tuition fee waiver and half tuition waiver are available. The general criteria are listed below:

- Reputation of candidates' previous undergraduate institution
- Academic performance
- International experience
- Achievements in other areas

Priority will be given to graduates of the Faculty of Construction and Environment (FCE) of PolyU in recent 3 years with outstanding academic performance. The amount of each scholarship shall be determined by the Department Scholarship Committee. No application is required. Awardees will be informed of the results individually.

## Programme Outline

- Medium of instruction: English
- Normal duration: 1 year (Full-time); 2.5 years (Part-time)
- Credits required for graduation: 30 credits

## Core Areas of Study

This programme offers 3 main areas of study, each covering a wide range of Core Subjects.

### General Civil Engineering

- Advanced Rock Engineering
- Analytical and Numerical Methods in Geotechnical Engineering
- Coastal Processes and Engineering under Climate Change
- Construction Management & Law
- Construction Technology
- Drainage Design
- Geo-hazards Mitigation
- Quantitative Techniques in Construction Planning
- Advanced Soil Mechanics

### Structural Engineering

- Advanced Reinforced Concrete
- Advanced Structural Design
- Bridge Engineering
- Facade Engineering
- Seismic Design of Building Structures
- Smart Infrastructure
- Tall Building Structures
- Wind Engineering

### Transportation Engineering

- Development of Transport Infrastructure\*
- Public Transport: Operations & Service Planning\*
- Smart Transport
- Traffic Engineering & Control
- Transport Management
- Urban Transport Planning – Theory & Practice\*

### Dissertation

- Dissertation (9 credits)

### Recommended Electives

- Air Transport Logistics and Management
- Port Policy and Management
- Statutory Framework for Construction Practice
- Metros in Hong Kong and China

\*This course has been included in the list of reimbursable courses under the Continuing Education Fund.

For details, please visit <https://www.polyu.edu.hk/cee/prospective-students/taught-postgraduate-programmes/msc-in-civil-engineering/>.

## Entrance Requirements

- A Bachelor's degree with Honours in civil engineering or an equivalent qualification.
- Applicants must also meet the English language requirement of the University. Please visit <https://www51.polyu.edu.hk/eProspectus/tpg/admissions-requirements> for details.

## Application

### Application Procedures

Prospective applicants can submit online applications at <https://www38.polyu.edu.hk/eAdmission/index.do>.

### Tuition Fee

HK\$5,800 per credit for local and non-local students

## Further Information

### Programme Leader

Dr Tak-Ming Chan  
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### General Office

Ms Chloe Cheung  
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Programme Information



Entrance Requirements



Application



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